

Specifications

Energy Measuring Unit

Basic Unit

Item		Specification			
Model		Energy Measuring Standard Model EMU4-BM1-MB	Energy Measuring High Performance Model EMU4-HM1-MB	Insulation Monitor Model EMU4-LG1-MB	
Phase wire system		Single-phase 2-wire/single-phase 3-wire, 3-phase 3-wire common	Single-phase 2-wire/single-phase 3-wire, 3-phase 3-wire/ three-phase 4-wire common	Single-phase 2-wire/single-phase 3-wire, 3-phase 3-wire/ three-phase 4-wire common	
Instrument ratings	Voltage circuit	Single-phase 2-wire/ 3-phase 3-wire	110V, 220VAC common ^(*)	110V, 220V, 440VAC common ^(*)	
		Single-phase 3-wire	110VAC (between wires 1 and 2, and wires 2 and 3), 220VAC (between wires 1 and 3)	110VAC (between wires 1 and 2, and wires 2 and 3), 220VAC (between wires 1 and 3) 220VAC (between wires 1 and 2, and wires 2 and 3), 440VAC (between wires 1 and 3)	
		3-phase 4-wire	-	Minimum: 63.5V/110VAC, Maximum: 277V/480VAC ^(*)	
	Current circuit	50A, 100A, 250A, 400A, 600A (Dedicated split-type current sensor is used. All values indicate primary current values of current sensor.) 5A (Dedicated 5A current sensor is used. Current transformer (CT) is used in two-step configuration together with the 5A current sensor in order to allow a maximum primary current value setting of 30,000A) ^(*)	1A (Mitsubishi ZCT is used. Primary current value of ZCT is indicated.)		
Frequency		50/60Hz (automatic frequency selection)			
Auxiliary power rating		100V - 240VAC (+10%, -15%) 50/60Hz			
No. of measurement circuits		1circuit	1circuit	1circuit	
Consumption VA	Voltage circuit	For each phase: 0.1VA (110VAC), 0.2VA (220VAC)	For each phase: 0.1VA (110VAC), 0.2VA (220VAC), 0.4VA (440VAC)	For each phase: 0.1VA (110VAC), 0.2VA (220VAC), 0.4VA (440VAC)	
	Current circuit	For each phase: 0.1VA (current sensor primary side)			
	Auxiliary power circuit ^(*)	110VAC:2.0VA AC220V:3.0VA			
Measurement items		Current, demanded current, voltage, power, demanded power, reactive power, power factor, frequency, electric energy (regenerative, consumption), reactive electric energy ^(*) , current imbalance rate, voltage imbalance rate, operating time	-	-	
Main unit tolerances ^(*)		Current, voltage, power, reactive power, apparent power, frequency: ±1.0% (relative to rated input) Power factor: ±3.0% Electric energy: ±2.0% (in 5 to 100% range of rated values; power factor = 1) Reactive electric energy: ±2.5% (in 10 to 100% range of rated values; power factor = 0)	Current, voltage, power, reactive power, apparent power, frequency: ±1.0% (relative to rated input) Power factor: ±3.0% Electric energy: ±2.0% (in 5 to 100% range of rated values; power factor = 1) Reactive electric energy: ±2.5% (in 10 to 100% range of rated values; power factor = 0) Harmonic current, harmonic voltage: ±2.5%	Low sensitivity mode Leakage current lo, resistive leakage current lor: ±2.5% (relative to 10 to 100% of rating) Leakage current lo, resistive leakage current lor: ±2.5mA (relative to 10% of rating or lower) High sensitivity mode Leakage current lo, resistive leakage current lor: ±2.5mA	
Data update cycle		100msec	-	Leakage current: 2sec, resistive leakage current: 2sec	
External input specification	Input signal format	-	Non-voltage a contact, 1 input (Select function from below)	-	
	Function	-	Contact/pulse input	-	
		Contact input	-	Monitoring of contact and measurement of electric energy during operation (when contact is ON)	-
		Pulse input	-	Counting of input pulse (count: 0 to 999,999)	-
Rated input voltage/current		-	5VDC, 7mA	-	
External output specification	Output signal format	-	Non-voltage a contact, 1 output (Select function from below)	-	
	Function	-	Alarm/pulse output	Alarm	
		Alarm output	-	Contact output of alarm generating status Select monitoring target from below. Monitoring of current demand upper limit, monitoring of current demand lower limit Monitoring of N-phase current demand upper limit Monitoring of line voltage upper limit Monitoring of line voltage lower limit Monitoring of phase voltage upper limit Monitoring of phase voltage lower limit Monitoring of power demand upper limit, monitoring of power demand lower limit Monitoring of power factor upper limit, monitoring of power factor lower limit Monitoring of pulse conversion value upper limit Monitoring of current imbalance rate upper limit Monitoring of voltage imbalance rate upper limit	Contact output of alarm generating status Select monitoring target from below Leakage current first stage alarm Leakage current second stage alarm Resistance leakage current first stage alarm Resistance leakage current second stage alarm Limit alarm of number of first stage alarm occurrences of leakage current Limit alarm of number of second stage alarm occurrences of leakage current Limit alarm of number of first stage alarm occurrences of resistance leakage current Limit alarm of number of second stage alarm occurrences of resistance leakage current
		Plus output	-	Pulse output of electric energy Select pulse unit from below. 0.001/0.01/0.1/1/10/100/1000/10000/100000(kWh/pulse) ^(*)	-
	Rated switching voltage/current		-	35VDC 75mA, 24VAC 75mA (Power factor = 1)	-
Power interruption backup	Recorded item	Setting values, electric energy (consumption, regenerative), reactive electric energy, periodic electric energy, operating time, pulse count value, pulse conversion value, electric energy conversion value, maximum value, minimum value (Stored in the nonvolatile memory)	•Setting values •Number of alarm occurrences •Maximum value (Stored in the nonvolatile memory)		
Compatible standard		EMC: EN-61326-1:2013, Safety: EN-61010-1:2010			
Operating environment	Operating temperature range	-5°Cto +55°C (ave. daily temp. of 35°C or lower)			
	Operating humidity range	30% to 85%RH (no condensation)			
	Storage temperature range	-10°C to +60°C (ave. daily temp. of 35°C or lower)			
	Altitude	2,000 m or lower			
Commercial-frequency withstand voltage		Between all terminals (excluding communication circuit and frame GND terminal) and external casing: 2,000VAC for 1min Between all current/voltage inputs and all auxiliary power terminals: 2,000VAC for 1min			
Insulation resistance		Between all current/voltage inputs, auxiliary power terminals and all contact/pulse inputs, pulse/alarm outputs, communication terminals: 2,000VAC for 1min At the same locations as above: 10 MΩ or more (500VDC)			
Compatible wire	Auxiliary power/voltage input terminal	AWG26-14 (single wire/stranded wires) (Single wire: φ0.41 to φ1.62mm, Stranded wires: 0.13 to 2.0mm ²)			
	Current input	Single wire: AWG24-17, Stranded wires: AWG20-26 ^(*) (Single wire: φ0.5 to φ1.2mm, Stranded wires: 0.5 to 1.3mm ²)			
	Input/output terminal	-	AWG26-16 (single wire/stranded wires) (Single wire: φ0.41 to φ1.29mm, Stranded wires: 0.13 to 1.3mm ²)		
Weight		0.2kg			
External dimensions (unit: mm)		37.5 (W) x 90 (H) x 94 (D) mm (excluding protruding parts)			

* 1: 110V and 220V can be connected directly. Externally mounted voltage transformer (VT) for instrument is needed for voltages greater than those (primary voltage can be set to up to 11,000V, and secondary voltage can be set between 1 and 220V). For details, see the instruction manual.
* 2: 110V, 220V and 440V can be connected directly. Externally mounted voltage transformer (VT) for instrument is needed for voltages greater than those (primary voltage can be set to up to 6,600V, and secondary voltage can be set between 1 and 220V). For details, see the instruction manual.
* 3: 63.5V/110V - 277V/480V can be connected directly. An externally mounted voltage transformer (VT) for instrument is needed for voltages greater than those (primary voltage can be set to up to 6,600V, and secondary voltage can be set between 1 and 220V). For details, see the instruction manual.
* 4: The settable primary current when using the 5A current sensor is as follows:
5A, 6A, 7.5A, 9A, 10A, 12A, 15A, 20A, 25A, 30A, 40A, 50A, 60A, 75A, 80A, 100A, 120A, 150A, 200A, 250A, 300A, 400A, 500A, 600A, 750A, 800A, 1000A, 1200A, 1500A, 1600A, 2000A, 2500A, 3000A, 4000A, 5000A, 6000A, 8000A, 10000A, 12000A, 20000A, 25000A, 30000A(CT primary side can be set freely up to 30,000A. However, CT secondary side is fixed at 5A.)

* 5: Refer to the specifications of options (split-type current sensor, 5A current sensor) on page 939 for the current sensor error rates.
* 6: Refer to the instruction manual for the detail on the setting of pulse unit.
* 7: Measurements are conducted based on a setting other than 2-circuit measurement mode with single-phase 2-wire setting.
* 8: It measures only in the case of Single-phase 2-wire, Single-phase 3-wire, 3-phase 3-wire.
* 9: Recommended bar terminal: Nichiū TGV TC-1, 25-11T.
* 10: Connected with optional units, it increases AC110V:4.5VA, AC220V:5.0VA. Connected with display units, it increases AC110V:1.5VA, AC220V:2.0VA.

Extension Unit

Item		Specification	
Model		Energy Measuring Extension Unit for Different voltage system EMU4-VA2	Energy Measuring Extension Unit for Same Voltage System EMU4-A2
Phase wire system		Single-phase 2-wire/single-phase 3-wire, 3-phase 3-wire/3-phase 4-wire common	
Instrument ratings	Voltage circuit	Single-phase 2-wire/3-phase 3-wire	110V, 220V, 440VAC common ^(*)2)
		Single-phase 3-wire	110VAC (between wires 1 and 2, and wires 2 and 3), 220VAC (between wires 1 and 3) 220VAC (between wires 1 and 2, and wires 2 and 3), 440VAC (between wires 1 and 3)
	3-phase 4-wire	Minimum: 63.5V/110VAC, Max.: 277V/480VAC ^(*)3)	
	Current circuit	50A, 100A, 250A, 400A, 600A (Dedicated split-type current sensor is used. All values indicate primary current values of current sensor.) 5A (Dedicated 5A current sensor is used. Current transformer (CT) is used in two-step configuration together with the 5A current sensor in order to allow a maximum primary current value setting of 30,000A) ^(*)4)	
Frequency		50/60Hz (automatic frequency selection)	
Auxiliary power rating		(Same as basic unit)	
No. of measurement circuits		2circuits	2circuits
Consumption VA	Voltage circuit	For each phase: 0.1VA (110VAC), 0.2VA (220VAC), 0.4VA (440VAC)	-
	Current circuit	For each phase: 0.1VA (current sensor primary side)	
	Auxiliary power circuit ^(*)10)	AC110V:1.0VA AC220VA:1.5VA	
Measurement items		Current, demanded current, voltage, power, demanded power, reactive power, power factor, frequency, electric energy (regenerative, consumption), reactive electric energy ^(*)7) , current imbalance rate, voltage imbalance rate, operating time Apparent power, harmonic current, harmonic voltage, electric energy conversion value	
Main unit tolerances ^(*)5)		Current, voltage, power, reactive power, apparent power, frequency: $\pm 1.0\%$ (relative to rated input) Power factor: $\pm 3.0\%$ Electric energy: $\pm 2.0\%$ (in 5 to 100% range of rated values; power factor = 1) Reactive electric energy: $\pm 2.5\%$ (in 10 to 100% range of rated values; power factor = 0) Harmonic current, harmonic voltage: $\pm 2.5\%$	
Data update cycle		100msec	
External input specification	Input signal format	-	-
	Function	Contact input	-
		Pulse input	-
		Rated input voltage/current	-
External output specification	Output signal format	Non-voltage a contact, 1 output (Select function from below)	
	Function	Alarm/pulse output	
		Alarm output	Contact output of alarm generating status Select monitoring target from below. Monitoring of current demand upper limit, monitoring of current demand lower limit Monitoring of N-phase current demand upper limit Monitoring of line voltage upper limit Monitoring of line voltage lower limit Monitoring of phase voltage upper limit Monitoring of phase voltage lower limit Monitoring of power demand upper limit, monitoring of power demand lower limit Monitoring of power factor upper limit, monitoring of power factor lower limit Monitoring of current imbalance rate upper limit Monitoring of voltage imbalance rate upper limit
	Plus output	Pulse output of electric energy Select pulse unit from below. 0.001/0.01/0.1/1/10/100/1000/10000/100000(kWh/pulse) ^(*)6)	
	Rated switching voltage/current	35VDC 75mA, 24VAC 75mA (Power factor = 1)	
Power interruption backup	Recorded item	Setting values, electric energy (consumption, regenerative), reactive electric energy, periodic electric energy, operating time, pulse count value, pulse conversion value, electric energy conversion value, maximum value, minimum value (Stored in the nonvolatile memory)	
Compatible standard		EMC: EN-61326-1:2013, Safety: EN-61010-1:2010	
Operating environment	Operating temperature range	-5°C to +55°C (ave. daily temp. of 35°C or lower)	
	Operating humidity range	30% to 85%RH (no condensation)	
	Storage temperature range	-10°C to +60°C (ave. daily temp. of 35°C or lower)	
	Altitude	2,000 m or lower	
Commercial-frequency withstand voltage		Between all terminals (excluding communication circuit and frame GND terminal) and external casing: 2,000VAC for 1min Between all current/voltage inputs and all auxiliary power terminals: 2,000VAC for 1min Between all current/voltage inputs, auxiliary power terminals and all contact/pulse inputs, pulse/alarm outputs, communication terminals: 2,000VAC for 1min	
Insulation resistance		At the same locations as above: 10 MΩ or more (500VDC)	
Compatible wire	Auxiliary power/voltage input terminal	AWG26-14 (single wire/stranded wires) (Single wire: $\phi 0.41$ to $\phi 1.62$ mm, Stranded wires: 0.13 to 2.0mm ²)	
	Current input	Single wire: AWG24-17, Stranded wires: AWG20-26 ^(*)9) (Single wire: $\phi 0.5$ to $\phi 1.2$ mm, Stranded wires: 0.5 to 1.3mm ²)	
	Input/output terminal	AWG26-16 (single wire/stranded wires) (Single wire: $\phi 0.41$ to $\phi 1.29$ mm, Stranded wires: 0.13 to 1.3mm ²)	
Weight		0.2kg	
External dimensions (unit: mm)		37.5 (W) x 90 (H) x 94 (D) mm (excluding protruding parts)	

*1: 110V and 220V can be connected directly. Externally mounted voltage transformer (VT) for instrument is needed for voltages greater than those (primary voltage can be set to up to 11,000V, and secondary voltage can be set between 1 and 220V). For details, see the instruction manual.
*2: 110V, 220V and 440V can be connected directly. Externally mounted voltage transformer (VT) for instrument is needed for voltages greater than those (primary voltage can be set to up to 6,600V, and secondary voltage can be set between 1 and 220V). For details, see the instruction manual.
*3: 63.5V/110V - 277V/480V can be connected directly. An externally mounted voltage transformer (VT) for instrument is needed for voltages greater than those (primary voltage can be set to up to 6,600V, and secondary voltage can be set between 1 and 220V). For details, see the instruction manual.
*4: The settable primary current when using the 5A current sensor is as follows:
5A, 6A, 7.5A, 8A, 10A, 12A, 15A, 20A, 25A, 30A, 40A, 50A, 60A, 75A, 80A, 100A, 120A, 150A, 200A, 250A, 300A, 400A, 500A, 600A, 750A, 800A, 1000A, 1200A, 1500A, 1600A, 2000A, 2500A, 3000A, 4000A, 5000A, 6000A, 7500A, 8000A, 10000A, 12000A, 20000A, 25000A, 30000A(CT primary side can be set freely up to 30,000A. However, CT secondary side is fixed at 5A.)
*5: Refer to the specifications of options (split-type current sensor, 5A current sensor) on page 939 for the current sensor error rates.
*6: Refer to the instruction manual for the detail on the setting of pulse unit.
*7: Measurements are conducted based on a setting other than 2-circuit measurement mode with single-phase 2-wire setting.
*8: It measures only in the case of Single-phase 2-wire, Single-phase 3-wire, 3-phase 3-wire.
*9: Recommended bar terminal: Nichi-hu TGV TC-1.25-11T.

Split-type Zero-phase Current Transformer

Item	Specification				
Model	CZ-22S	CZ-30S	CZ-55S	CZ-77S	CZ-112S
Hole diameter (mm)	22	30	55	77	112
Allowable current (A)	50	100	300	600	1,000
Weight (kg)	0.5	0.6	1.8	2.8	2.8
Rated short-time current	50kA (peak-to-peak value: 100kA)				

Through-type Zero-phase Current Transformer

Item	Specification					
Model	ZT15B	ZT30B	ZT40B	ZT60B	ZT80B	ZT100B
Hole diameter (mm)	15	30	40	60	80	100
Allowable current	Refer to the following table, "Zero-phase Current transformer (ZCT) inside Diameter, Maximum Through-wire Diameter and Allowable Current."					
Weight (kg)	0.2	0.4	0.6	2.0	2.6	3.3
Rated short-time current	50kA (peak-to-peak value: 100kA)					

Zero-phase Current Transformer with Primary Conductor

Item	Specification		
Model	ZTA600A	ZTA1200A	ZTA2000A
Allowable current (A)	600	1200	2000
Weight (kg)	6.5	11	27
Rated burden	3		
Number of polarities	AC600V		
Rated short-time current	100kA (peak value)		

Zero-phase Current transformer (ZCT) inside Diameter, Maximum Through-wire Diameter and Allowable Current

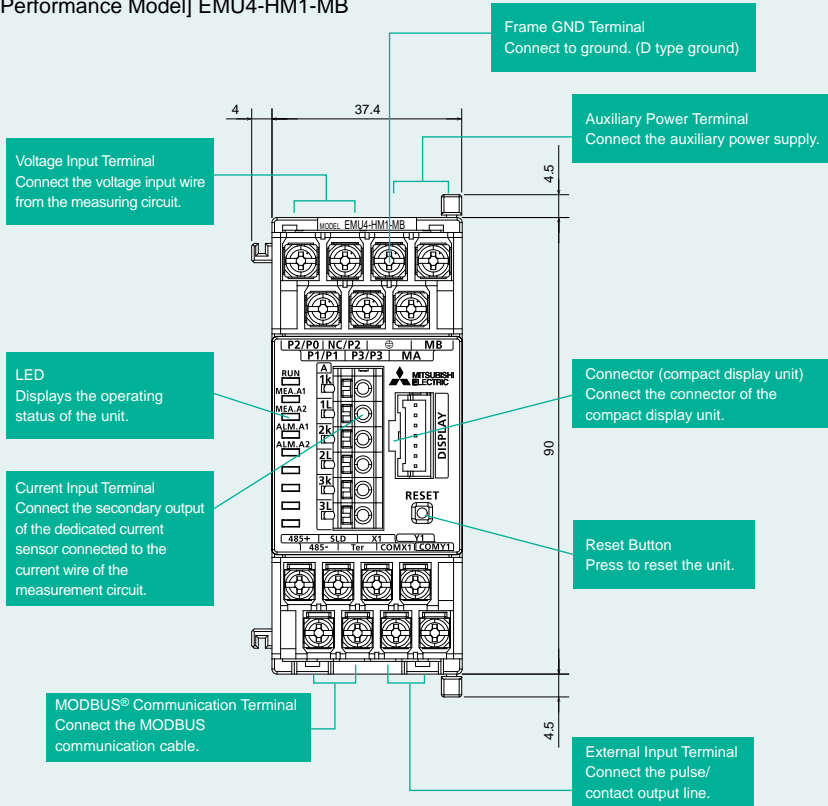
Wiring			Maximum through-wire diameter (mm ²) (Allowable current (A) of wire)										
			Split type					Through type					
Phase wire	No. of wires	Wire type	CZ-22S	CZ-30S	CZ-55S	CZ-77S	CZ-112S	ZT15B	ZT30B	ZT40B	ZT60B	ZT80B	ZT100B
Single-phase 2-wire	2	600V polyvinyl-insulated wire (IV)	22 (115)	60 (217)	250 (556)	500 (842)	-	14 (88)	60 (217)	150 (395)	325 (650)	600 (992)	800 (1185)
		600V cross-linked polyethylene-insulated wire Single-core wire (CV wire)	22 (130)	38 (190)	200 (545)	500 (920)	1000 (1465)	2 (33)	38 (190)	60 (260)	250 (655)	400 (870)	600 (1140)
Single-phase 3-wire 3-phase 3-wire	3	600V polyvinyl-insulated wire (IV)	22 (115)	38 (162)	200 (496)	500 (842)	-	8 (61)	38 (162)	100 (298)	250 (556)	500 (842)	725 (1095)
		600V cross-linked polyethylene-insulated wire Single-core wire (CV wire)	14 (100)	22 (135)	150 (455)	325 (760)	800 (1285)	2 (33)	22 (135)	60 (260)	200 (560)	325 (760)	600 (1140)

*1: Note that the wire thickness may vary slightly depending on the manufacturer.
 *2: The IV wire applies to cases where insulators are used.
 *3: The IV wire applies to cases where insulation in a covered conduit in air.
 (Cables of 600mm² or more have various structures. The values are shown for reference.)

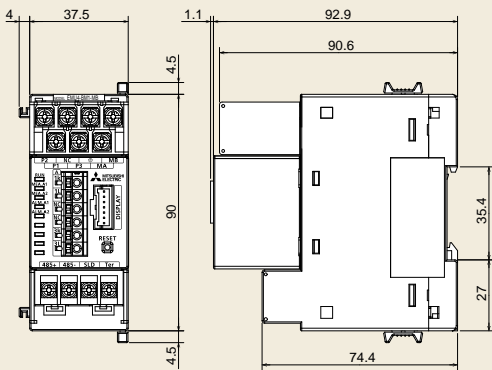
External View

Units (mm)

●[Energy Measuring High Performance Model] EMU4-HM1-MB

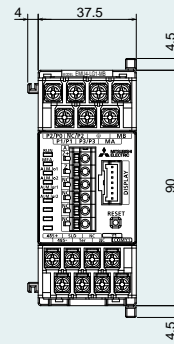


●[Energy Measuring Standard Model] EMU4-HM1-MB

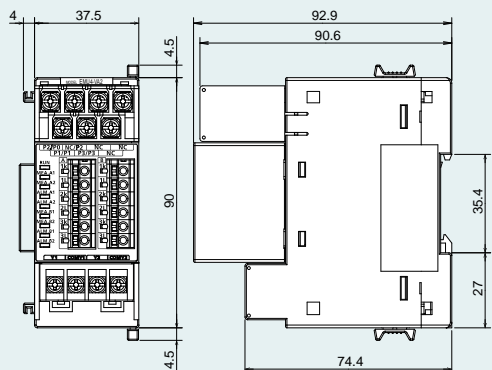


* This side view also applies to other basic unit models (EMU4-BM1-MB, EMU4-HM1-MB, EMU4-LG1-MB).

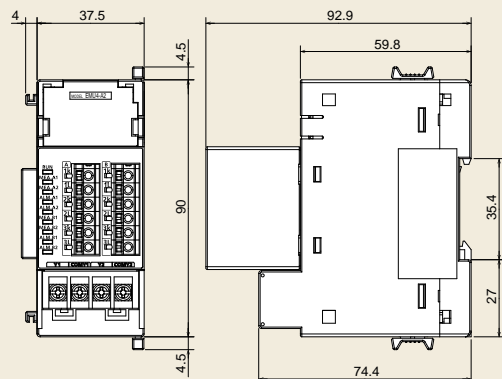
●[Insulation Monitor Model] EMU4-LG1-MB



●[Energy Measuring Extension Unit for Different Voltage System] EMU4-VA2



●[Energy Measuring Extension Unit for Same Voltage System] EMU4-A2



MEMO

Power Monitoring Product

PLC
MELSEC-Q Series

EcoMonitor
Pro

EcoMonitor
Light

**EcoMonitor
Plus**

Eco
WebServer III

System Configuration Example

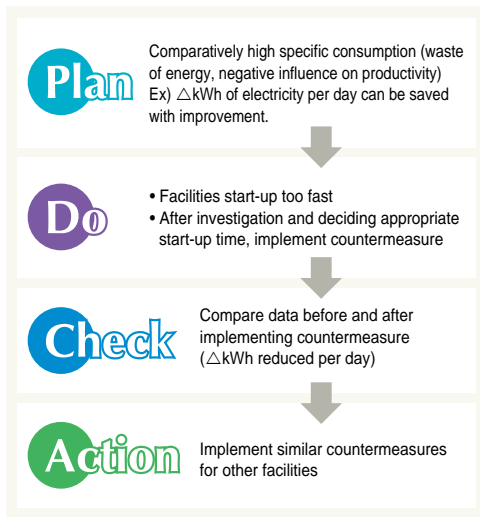
Energy Management System

Energy-saving Data Collection Server



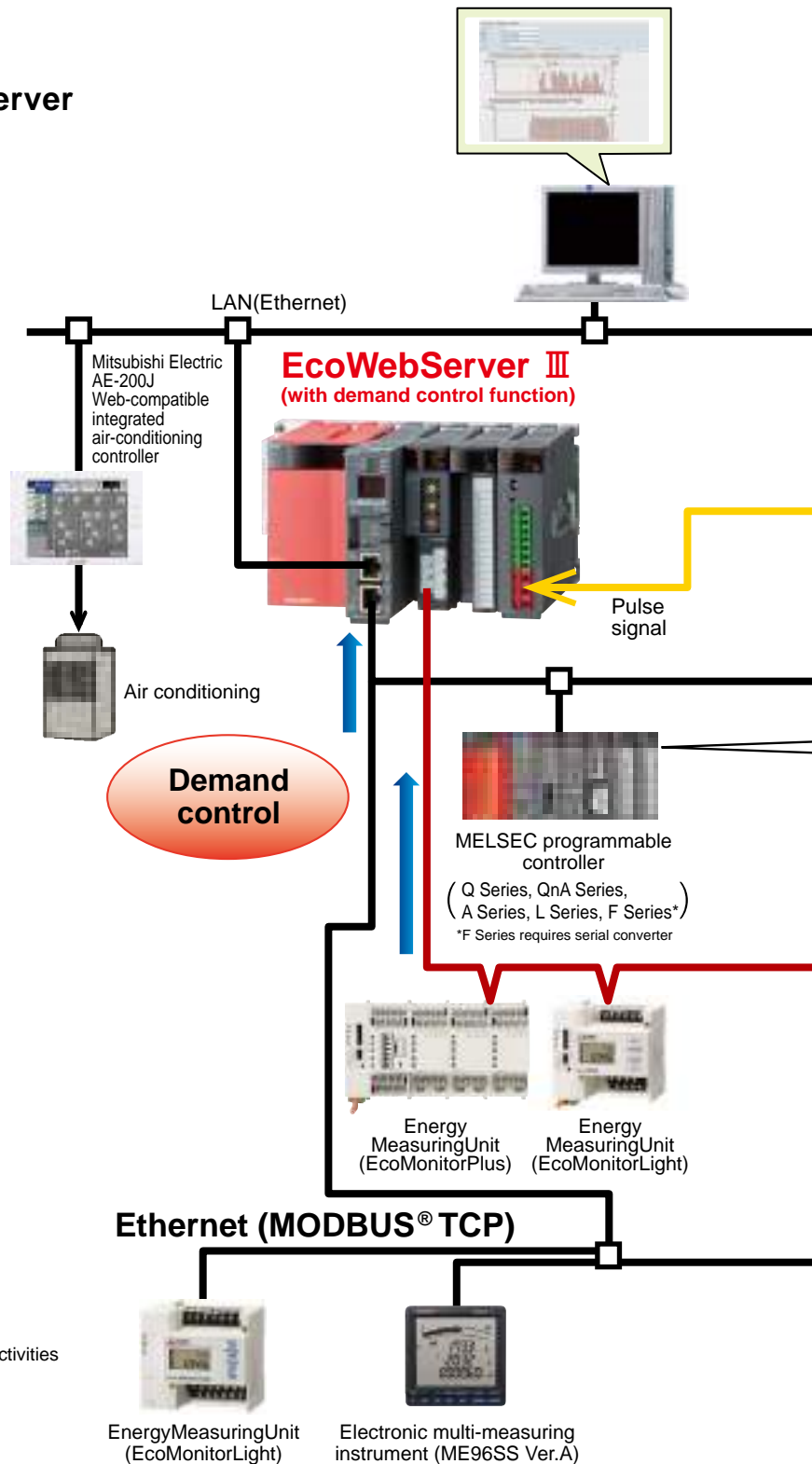
Support factory, building and school energy-saving activities.
 Build visualized environments and manage energy effectively.
 Support to energy conditions at all times and quickly resolve energy loss problems.
 Finally reduce energy loss, increase productivity and cut production costs.

Energy-saving method



Support energy-saving activities using "Visible Management"

1. Monitor/Manage energy by department
2. Specific consumption-based management of energy-saving activities
3. Monthly/Annual target-based management
4. Monitor equipment operating status
5. Manage/Record energy data

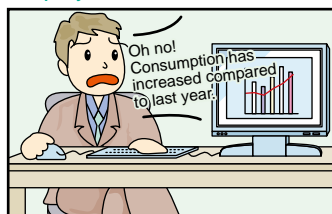


Entire factory

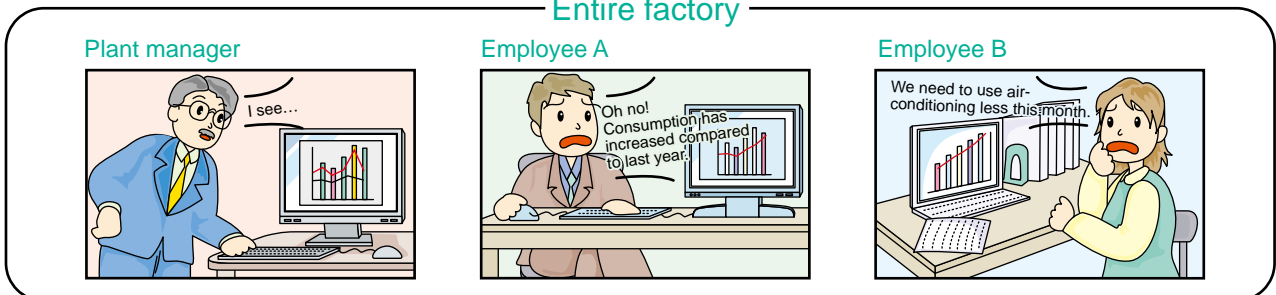
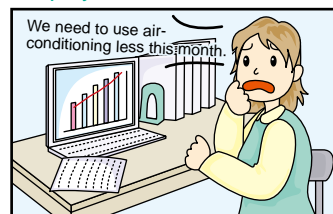
Plant manager

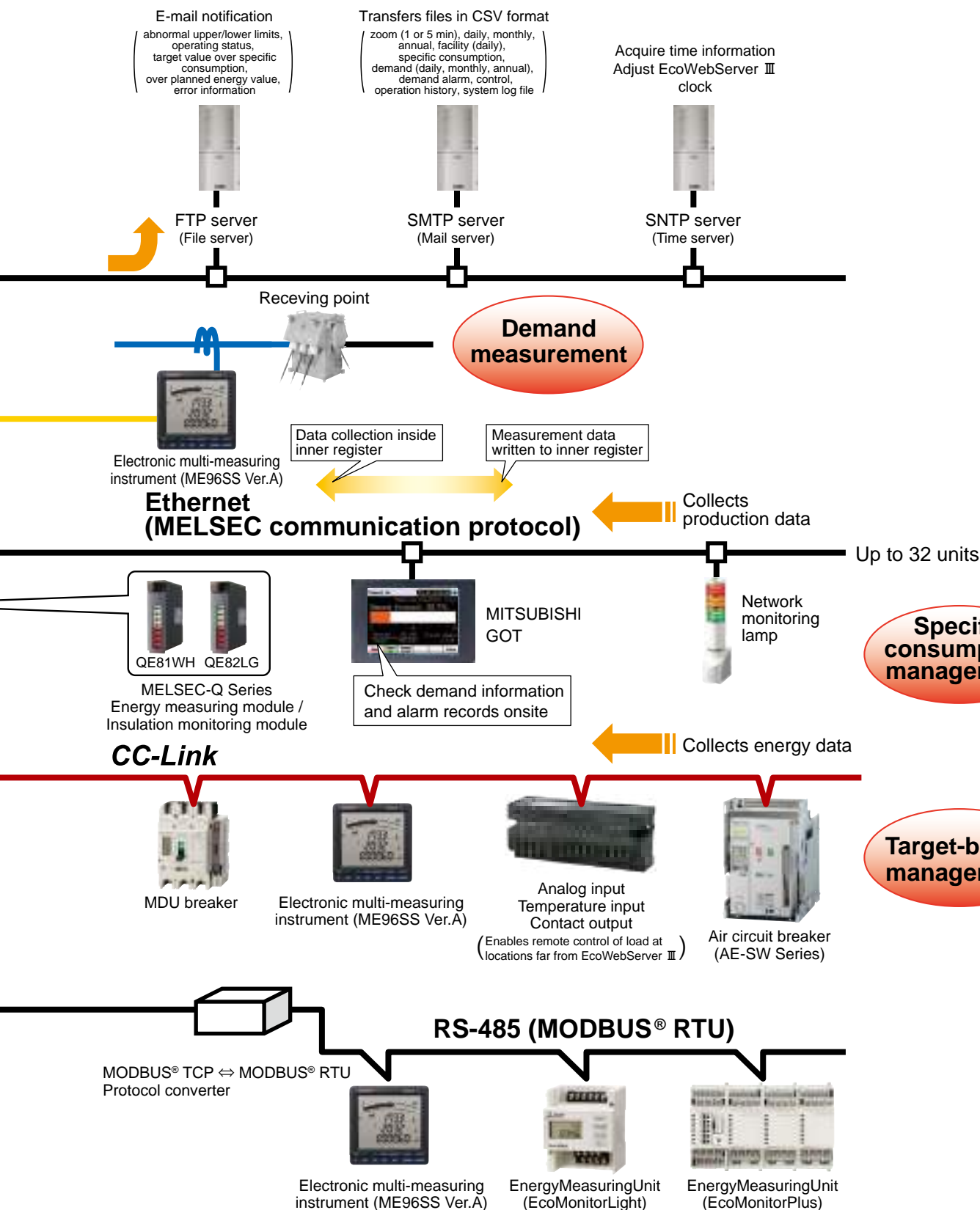


Employee A



Employee B





- MELSEC-Q Series PLC
- EcoMonitor Pro
- EcoMonitor Light
- EcoMonitor Plus
- Eco WebServer III

Production line

For monitor equipment status

For managing objectives

For improvement activities

Importance of Visualizing Energy

Essentials Issues for Saving Energy

● Target Value Management

Managing objectives is a very important issue when practicing energy savings.

“Target value management” is the process of transforming actual conditions into ideal conditions, and thereby requires understanding the actual situation and how much “unseen” waste there is. For this reason, target value management involves performing detailed management of operations, moving from months to days and lines to equipment, and evolving from “seeing” waste to “understanding” it.

Additionally, when using target value management, it is necessary to construct and put into practice an organization that values “people who set objectives (manage),” “people who find things” and “people capable of thinking of improvements and implementing them.”

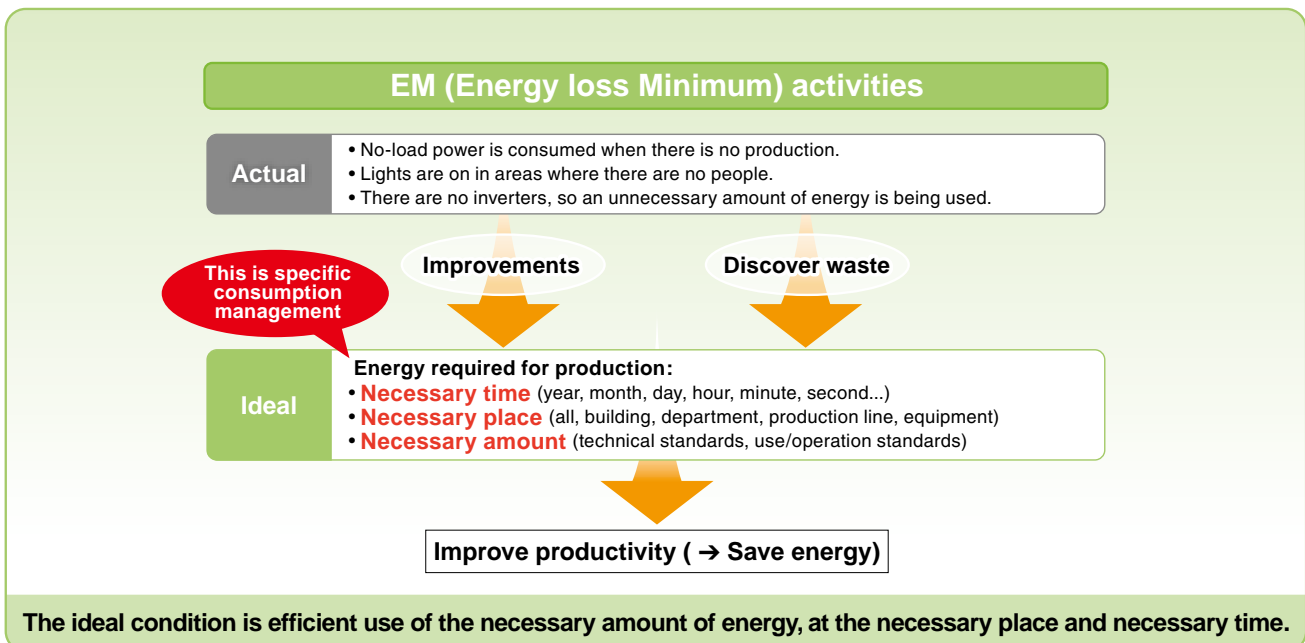


● Specific consumption management

In lines where there is a large difference in production volume, it is difficult to save energy and improve productivity using energy management alone.

By understanding specific consumption —energy consumed per product— waste in energy and production processes can be clarified, and it becomes easier to implement countermeasures.

Rather than simply not using energy, it's important to use energy efficiently when, where and how much needed.



Importance of Demand Monitoring

Energy Saving by visualizing demand

●What is "Demand"....?

Demand is average electric power at a specified period. This period for demand differs for each country and the way of management method.

Electric fee is basically determined based on the highest demand in one year(→contract demand).

The higher the contract demand is, the more expensive the electric basic charge is.

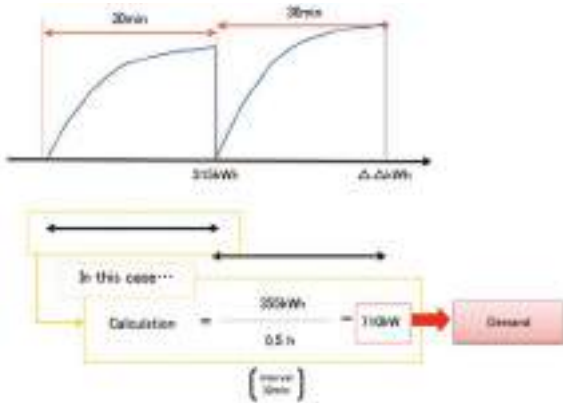
There are two types of basic demand management method as below.

(1) Fixed block demand management method

The demand period consists of only an interval.

Fixed block demand management

Ex) Interval:30min



(2) Rolling block demand management method

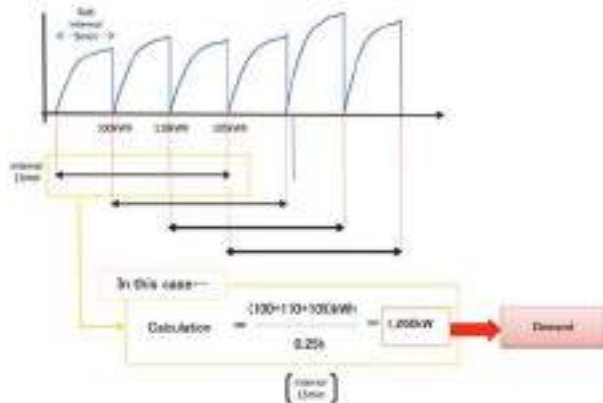
The demand period consists of interval and sub interval.

Interval is the period for calculation of average electric.

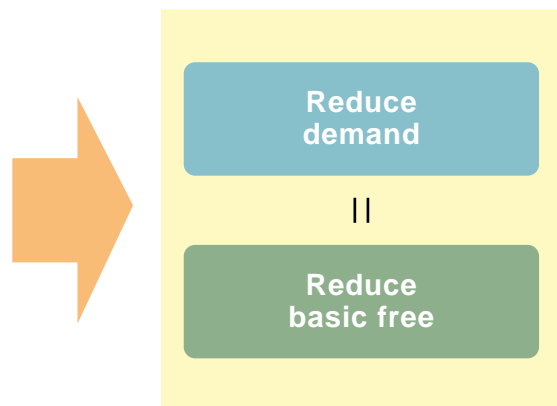
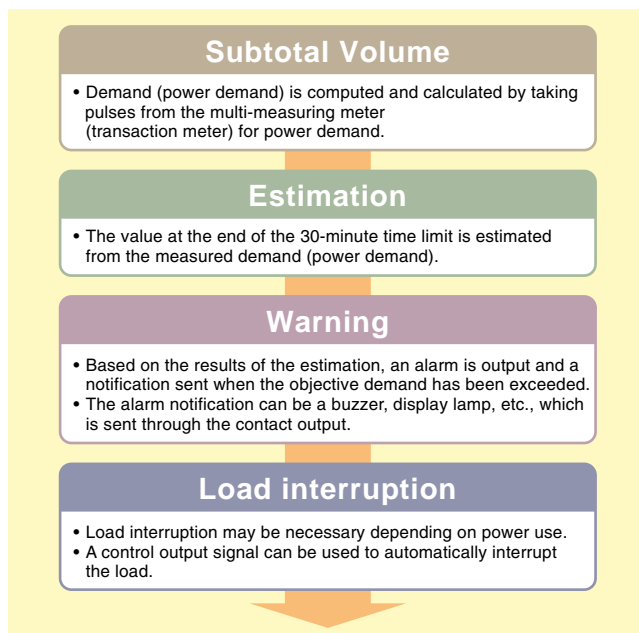
Sub interval is the period for update the calculation.

Rolling block demand management method

Ex) Interval:15min, Sub interval 5min



EcoWebServer III with demand monitoring function comply with the Fixed block demand management method. Interval can be selected from 15min or 30min.



Realize visualization of energy and demand management with one EcoWebServer III.



PLC
MELSEC-Q Series
EcoMonitor
Pro
EcoMonitor
Light
EcoMonitor
Plus
Eco
WebServer III

Lineup

Energy-saving Data Collection Server EcoWebServer III



Product name	Energy-saving Data Collection Server
Model no.	MES3-255C-EN
Communication	CC-Link, MODBUS® (TCP, RTU*)

Product name	Energy-saving Data Collection Server (with demand control function)
Model no.	MES3-255C-DM-EN
Communication	CC-Link, MODBUS® (TCP, RTU*)

*MODBUS® TCP ⇔ RTU converter is required for MODBUS® RTU communication.
 MODBUS® TCP ⇔ RTU converter (SI-485 MB) is produced by LINEEYE CO.,LTD.

Network Specifications (CC-Link)

Item	Specifications																			
Transmission speed	156kbps / 625kbps / 2.5Mbps / 5Mbps / 10Mbps																			
Maximum total cable length (maximum transmission distance)	Transmission speed																			
	156kbps																			
	625kbps																			
	2.5Mbps																			
	5Mbps																			
10Mbps	20cm or more																			
Maximum number of connected units	64 units However, conditions on the right must be met																			
	<table border="1"> <tr> <td colspan="2">1. Total number of stations</td> </tr> <tr> <td colspan="2">$a+b \times 2 + c \times 3 + d \times 4 \leq 64$</td> </tr> <tr> <td>a: 1 station occupied,</td> <td>b: 2 stations occupied,</td> </tr> <tr> <td>c: 3 stations occupied,</td> <td>d: 4 stations occupied</td> </tr> <tr> <td colspan="2">2. Number of units connected</td> </tr> <tr> <td colspan="2">$16 \times (A+D) + 54 \times B + 88 \times C \leq 2304$</td> </tr> <tr> <td>A: Number of remote I/O stations</td> <td>...64 max</td> </tr> <tr> <td>B: Number of remote device stations</td> <td>...42 max</td> </tr> <tr> <td>C: Number of local stations, intelligent device stations</td> <td>...26 max</td> </tr> <tr> <td>D: Number of reserve stations *</td> <td></td> </tr> </table>	1. Total number of stations		$a+b \times 2 + c \times 3 + d \times 4 \leq 64$		a: 1 station occupied,	b: 2 stations occupied,	c: 3 stations occupied,	d: 4 stations occupied	2. Number of units connected		$16 \times (A+D) + 54 \times B + 88 \times C \leq 2304$		A: Number of remote I/O stations	...64 max	B: Number of remote device stations	...42 max	C: Number of local stations, intelligent device stations	...26 max	D: Number of reserve stations *
1. Total number of stations																				
$a+b \times 2 + c \times 3 + d \times 4 \leq 64$																				
a: 1 station occupied,	b: 2 stations occupied,																			
c: 3 stations occupied,	d: 4 stations occupied																			
2. Number of units connected																				
$16 \times (A+D) + 54 \times B + 88 \times C \leq 2304$																				
A: Number of remote I/O stations	...64 max																			
B: Number of remote device stations	...42 max																			
C: Number of local stations, intelligent device stations	...26 max																			
D: Number of reserve stations *																				
Communication method	Broadcast polling method																			
Synchronization method	Frame synchronization method																			
Encoding method	NRZI method																			
Transmission route format	Bus (RS-485)																			
Transmission format	HDLC compatible																			
Error control method	CRC ($x^{16}+x^{12}+x^{15}$)																			
Connecting cable	CC-Link Ver1.10-compatible dedicated cable																			

* Unregistered station numbers from station 1 to the maximum number of stations are counted as reserve stations.

PLC MELSEC-Q Series

EcoMonitor Pro

EcoMonitor Light

EcoMonitor Plus

EcoWebServer III

Function Comparison/System Environment

Functions

Product Name		MES3-255C-EN	MES3-255C-DM-EN		
Demand function		—	○		
Connection device	CC-Link terminal device	Number of remote I/O stations≤64, Number of remote device stations≤42, Number of local stations≤26			
	MODBUS® terminal device	Number of MODBUS® TCP terminals≤255 Number of MODBUS® RTU terminals≤31 for each gateway Number of total MODBUS® terminals≤255			
	mitsubishi PLC, GOT	MC protocol connection (LAN CH2 used) * device read/write CC-Link unit (local) connection * device read			
Number of measuring points	Measuring points	255 points			
	Number of operation measuring points	32 points (includes 255 measuring points)			
	Virtual measuring points	128 points			
	Specific consumption measuring points	64 points			
	Connection point output	32 points			
Demand monitoring	Receiving demand	—	2 points (fixed) whole day, timeframe 1-10		
	Receiving electric energy	—	2 points (fixed) whole day, timeframe 1-10		
Data saving function * CSV format	Zoom (every 1min) data	62-day amount			
	Zoom (every 5min) data	14-day amount			
	Daily data (on the hour or every 30min)	186-day amount			
	Monthly data (specified time (00min) once a day)	60-month amount			
	Yearly data (specified time (00min) once a month)	5-year amount			
	Virtual measuring point data (daily)	186-day amount			
	Virtual measuring point data (monthly)	60-month amount			
	Virtual measuring point data (yearly)	5-year amount			
	Specific consumption measuring point data (daily)	186-day amount			
	Specific consumption measuring point data (monthly)	60-month amount			
	Specific consumption measuring point data (yearly)	5-year amount			
	Equipment data (daily)	186-day amount			
	Operating history data	64KBx4 files			
	System log	256KBx8 files			
	Demand data (daily)	—	186-day amount		
Demand data (monthly(daily maximum))	—	60-month amount			
Demand data (yearly(monthly maximum))	—	5-year amount			
Demand alarm/Control log	—	128KBx62 files			
Display function	Real-time	Demand monitor	—	<ul style="list-style-type: none"> • Displays current time limit demand load curve • Displays graph of same day demand results 	
		Current value monitor	The current value of the specified measuring points are displayed in the units registered for groups and display lists Displays differential display mode function/differential values for specified measuring points (time differential: amount used from previous hour to present time, daily differential/monthly differential: amount used from previous summary time to present)		
		Connection point output monitor	Displays connecting point output status		
	Graph display	Demand trend graph	—	Displays demand trend graph	
		Measuring point comparison graph	Displays comparison of multiple measuring point data for specified display intervals/time displayed		
		Daily comparison graph	Displays comparison of specified measuring points for desired date		
		Specific consumption graph	Displays graph after dividing energy volume by number produced		
		Equipment graph	Displays graph of equipment efficiency, number of defects and equipment energy volume		
	Data file	Download measuring point data, virtual measuring point data, specific consumption data, equipment data, operating history data, system log, demand data *, alarms/control log * (*only for products with demand monitoring functions)			
	Equipment values list	Displays measuring points, connection point output and content of email notifications set for EcoServer III			
Monitoring functions	Email notification function	Transmits main unit error notifications, periodic notifications, upper/lower limit notifications, operating status notifications, specific consumption objective value notifications, energy plan value notifications and demand notifications * to the specified SMTP Server (*only for products with demand monitoring functions)			
	Connection point output	Outputs connection points for EcoWebServer III connection point output module or combined CC-Link input/output module			

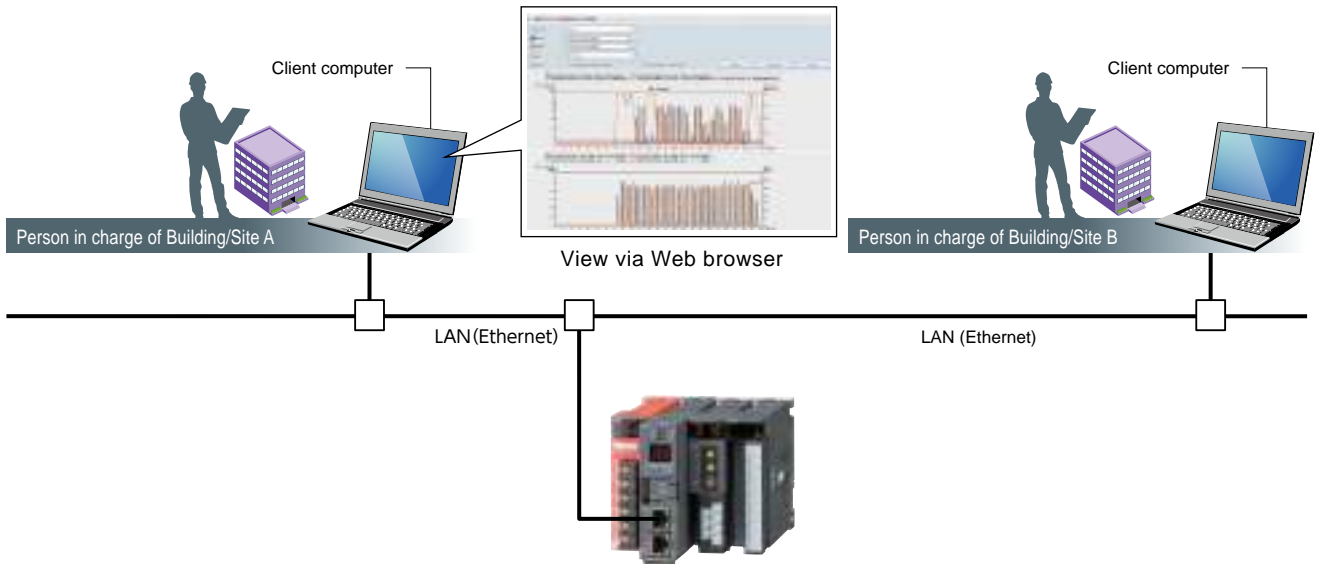
Recommended system environment

Item	Specification
OS (basic software)	Microsoft Windows Vista® Business (32bit) SP2, Microsoft Windows 7 Professional (32bit, 64bit) SP1 Microsoft Windows 8.1 Pro (32bit, 64bit), Microsoft Windows 10 Pro (32bit, 64bit)
CPU	Pentium® 1GHz processor or faster, or compatible microprocessor (DOS/V-compatible device)
Memory	1GB or more
Hard-disk	If data accumulated by EcoWebServer III is saved to a computer, that storage capacity is required.
CD drive	1 group or more (required for installing setup software)
Display resolution	1280x1024 pixels or more
Display colors	65536 colors or more
Input device	Mouse and keyboard
External interface	10BASE-T / 100BASE-TX
Web browser	Internet Explorer® 7, 8 (32bit), 9 (32bit), 10 (32bit), 11 (32bit)
Java plug-in	Oracle Java™ 8 JRE 8 (32bit), Oracle Java™ 7 JRE 7 (32bit), Oracle Java™ 6 JRE 6 (32bit)

Features

Measured data can be displayed on a Web browser with graphs without any programming.

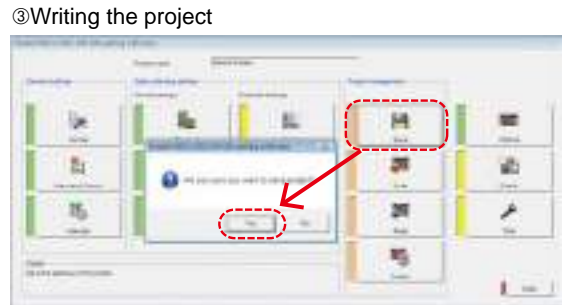
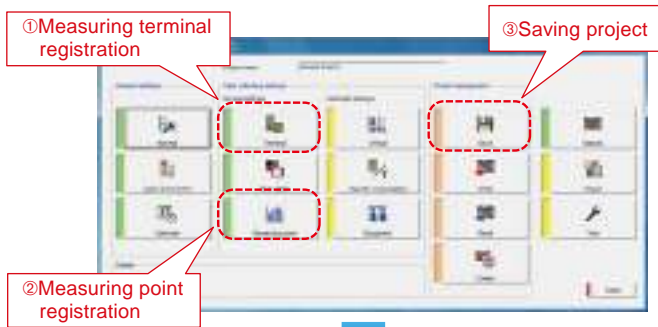
Using the HTTP Server function, the collected data is transmitted via Ethernet across the Internet/Intranet so that all employees can confirm and understand amount of energy used in real-time.



Easy setting by using dedicated setting software.

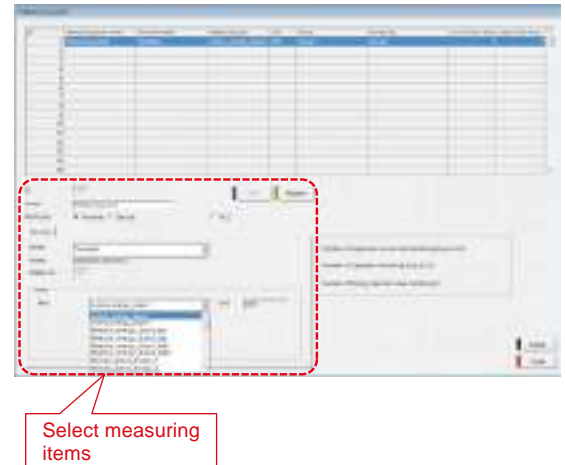
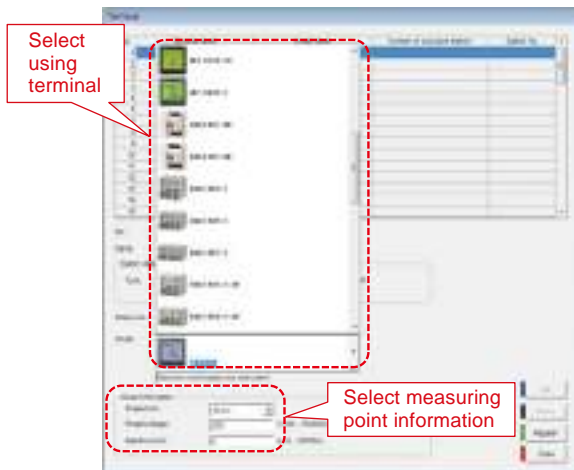
The minimum required registering configuration on the measuring is

“①Measuring terminal registration” → “②Measuring point registration” → “③Writing the project” only.



①Measuring terminal registration

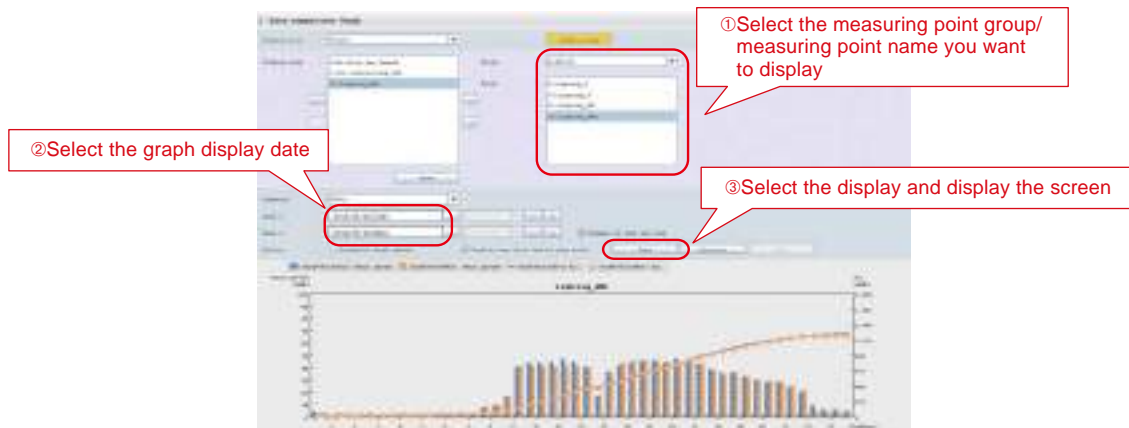
②Measuring point registration



Add new comparison screens according to the scenario. Strong support provided for analyzing activities.

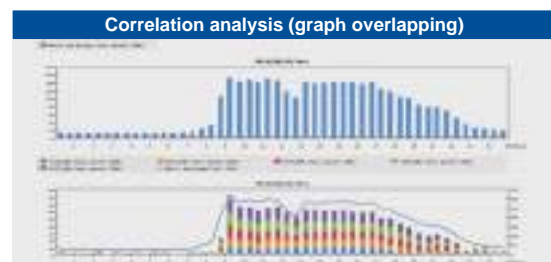
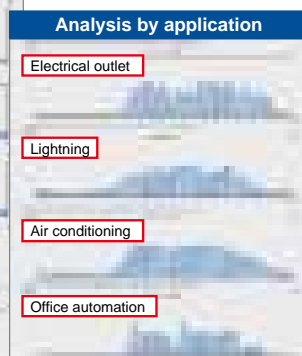
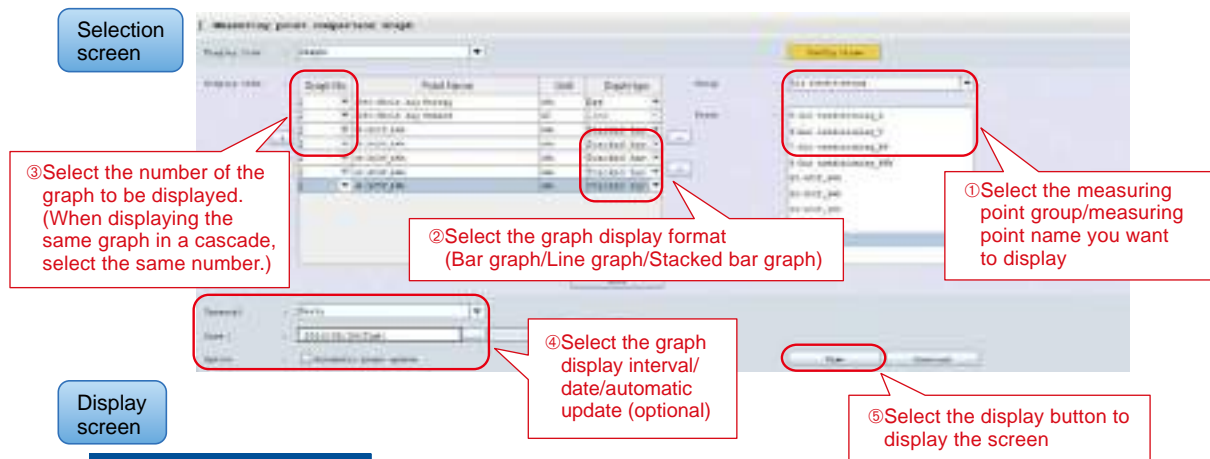
1 Date comparison graph

- The display procedure is select “①Measuring point group/name → ②Graph display date” and select “③Display” only.
- A comparison of the specified date and items can be displayed.



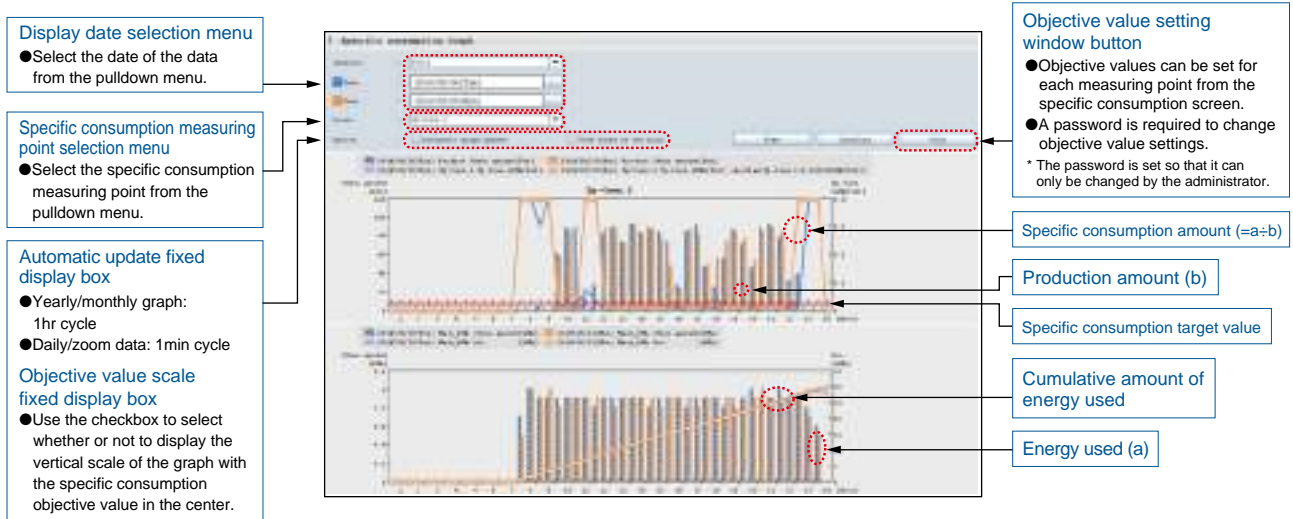
2 Measuring point comparison graph

- The display procedure is to select “①Measuring point group/name → ②Graph display format → ③Graph No. → ④Graph display intervals etc.” and select “⑤Display” only.
- It's possible to select graphs and display various graphs in the format of your choice. It's also possible to display the same graph, making it easy to understand graph correlations.



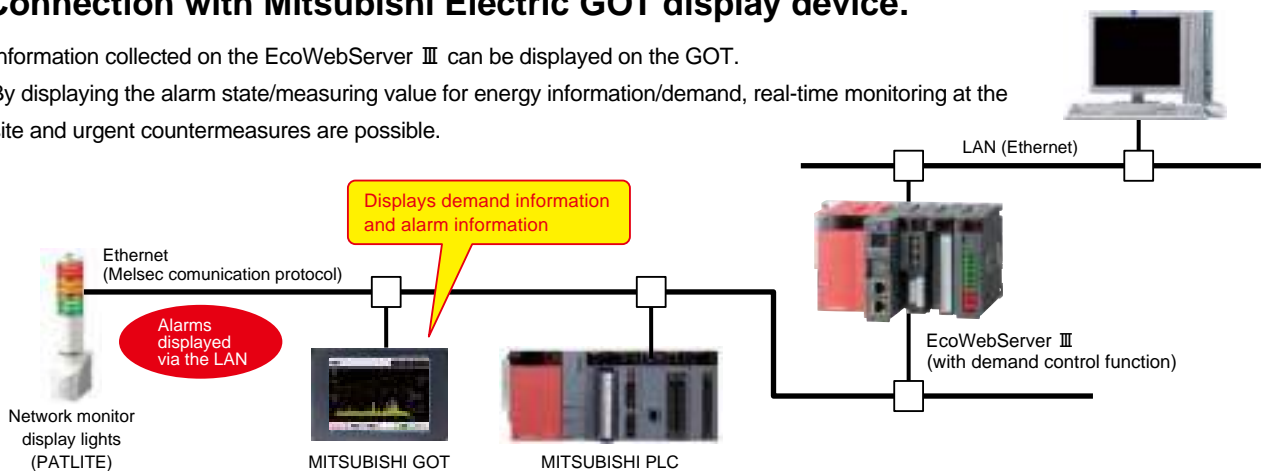
Easily understand productivity by confirming the specific consumption graph

- By integrating the production volumes from the measuring terminal and PLC, the specific consumption graph can be easily displayed and points related to the drop in specific consumption can be easily understood.
- Additionally, by comparing two specific consumption graphs at the same line, it is possible to confirm the benefits at the time the countermeasure was implemented.



Connection with Mitsubishi Electric GOT display device.

- Information collected on the EcoWebServer III can be displayed on the GOT.
- By displaying the alarm state/measuring value for energy information/demand, real-time monitoring at the site and urgent countermeasures are possible.

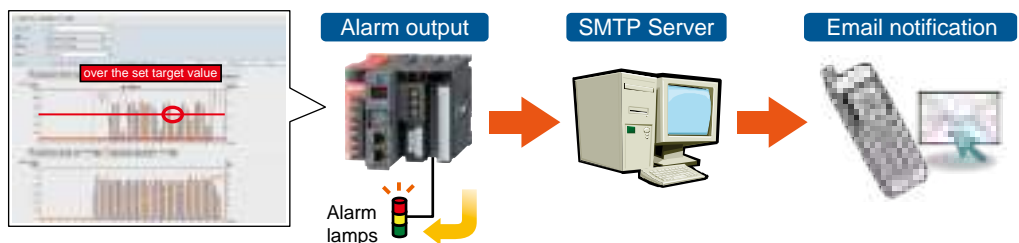


Alarm output/email notification through a variety of monitoring functions.

- Objective values (upper/lower) and error information can be transmitted through email notifications/alarm output, and changes in status can be recognized immediately. The result of the careful target value management and monitoring the status monitoring ensure that problems occurring at the site are not overlooked.

<Items monitored>

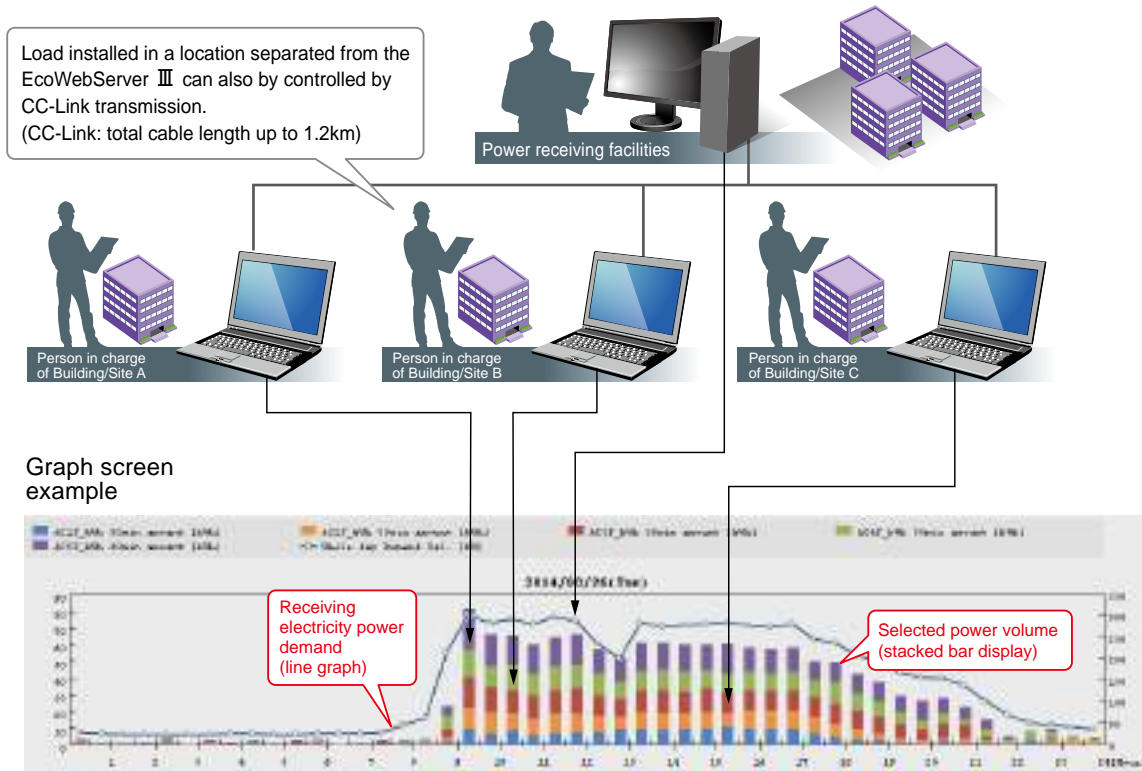
- Energy plan value
- Specific consumption objective value
- Upper/lower irregularity
- Change in operating state
- Error information
- Demand alarm



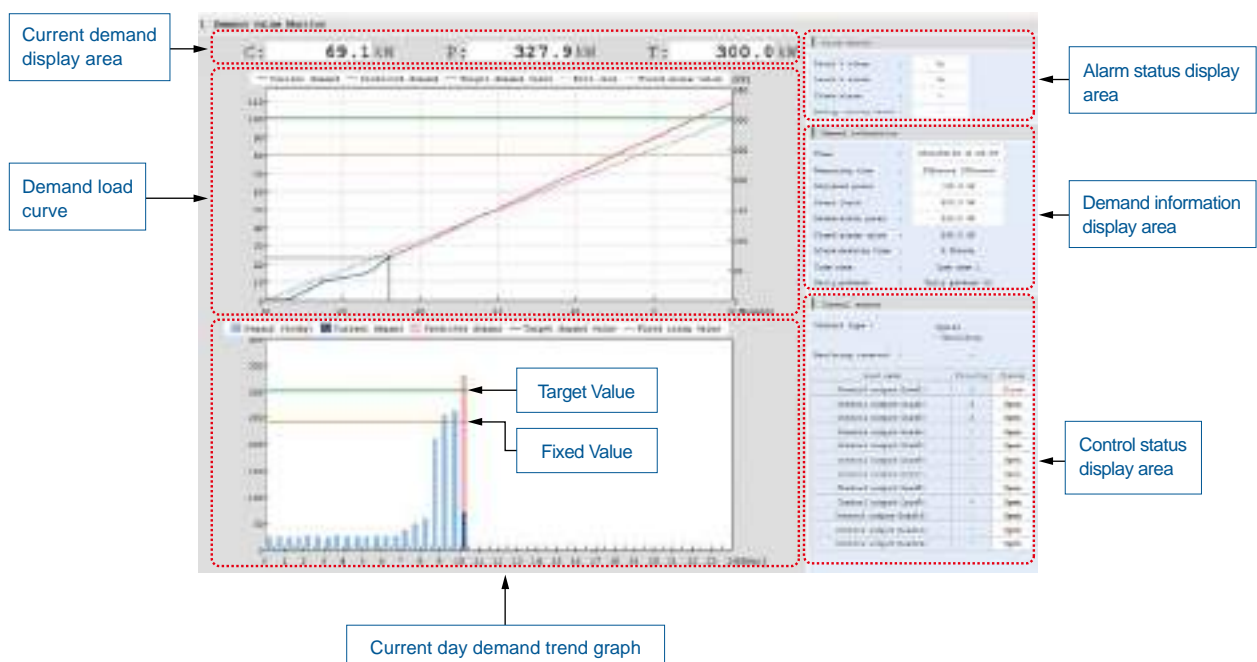
Simultaneously visualize demand trends and energy consumption per building/load

Compatible model: MES3-255C-DM-EN only

- As the breakdown of power demand (load balance) can be easily understood from the power demand trends and stacked bar graphs for each regional substation and operating equipment can be reviewed, and operations can be planned and proposed based on the analysis results, which enable peak shift/peak cut.



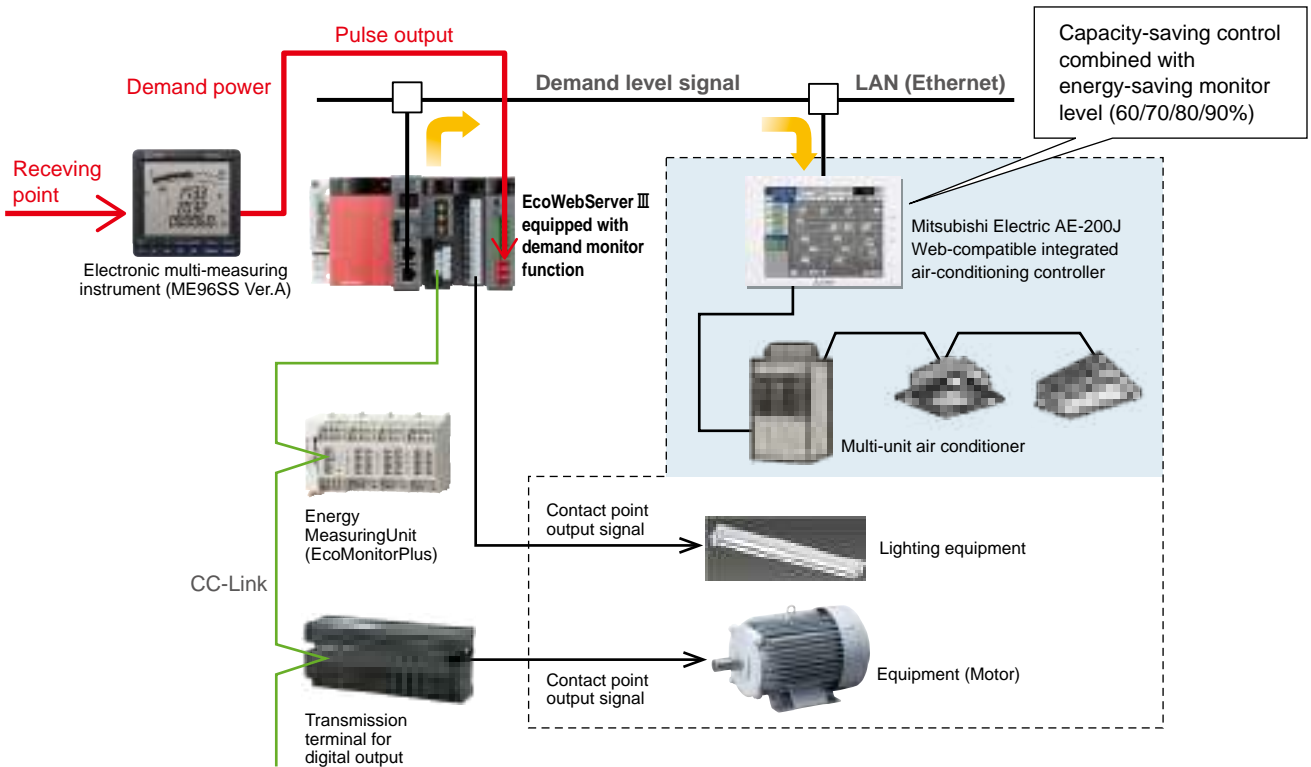
Demand monitor screen



Energy-saving air conditioning operation realized by interconnecting with integrated air-conditioning controller.

Compatible model: MES3-255C-DM-EN only

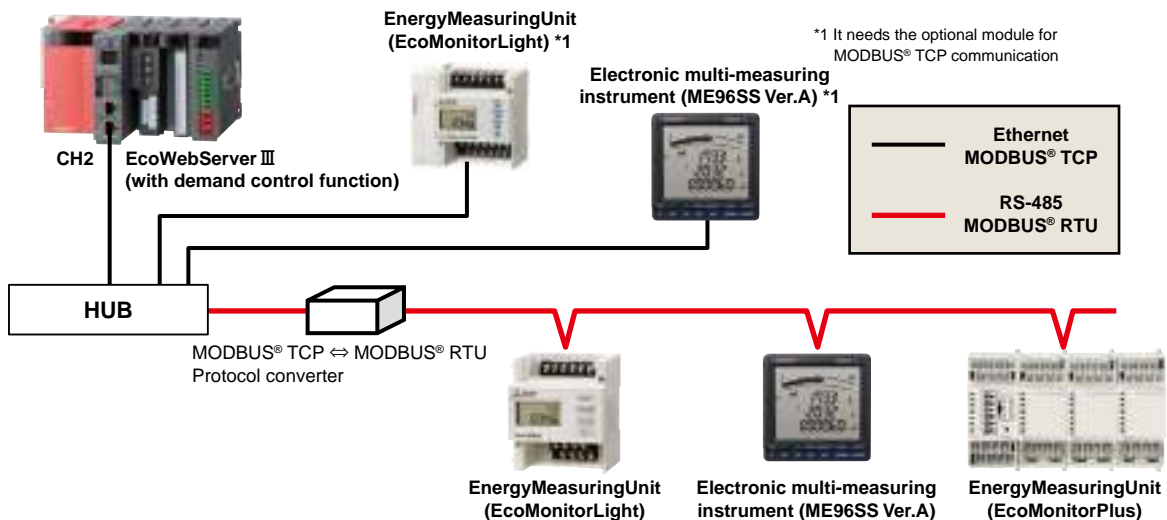
- Demand control possible by interconnecting with Mitsubishi Electric Web-compatible integrated controller—AE-200J, G-150AD, etc. Additionally, automatic control of load possible through contact point output via main unit of EcoWebServer III and CC-Link.



It can be connected at MODBUS® RTU/TCP communication

- Using the LAN interface (CH2) of EcoWebServer III, **realize MODBUS® TCP communication.** (As with the case of MC protocol communication)
- Using the LAN CH2 of EcoWebServer III, via MODBUS® TCP ⇔ MODBUS® RTU converter, realize **MODBUS® RTU communication.**

* MODBUS® TCP ⇔ RTU converter is required for MODBUS® RTU communication. MODBUS® TCP ⇔ RTU converter (SI-485 MB) is produced by LINEEYE CO.,LTD.



Main Unit Specifications

MES3-255C-EN front

7-segment LED display
Displays an error code when an error is detected. In addition, in IP address display mode, the preset IP address is displayed at start-up.

USB interface
Not used.

LAN interface CH1
Use connected to a computer network.

LAN interface CH2
Use when connected to a programmable controller network, MITSUBISHI GOT, MODBUS[®] communication.

Power-supply terminal block
Connect power supply. (Note 1)

CC-Link terminal block
Connect CC-Link communication cable.

Power-supply section

Server section

CC-Link communication section

Contact output section

LED display
Display each status.

CC-Link station number setting switch
Set CC-Link station number.

CC-Link transmission speed setting switch
Set CC-Link transmission speed.

Contact output terminal block
Closed when conditions monitoring function conditions are met. Connect external equipment such as buzzers and lamps.

LED display
Display each status.

MES3-255C-DM-EN front

7-segment LED display
Displays an error code when an error is detected. In addition, in IP address display mode, the preset IP address is displayed at start-up.

USB interface
Not used.

LAN interface CH1
Use connected to a computer network.

LAN interface CH2
Use when connected to a programmable controller network, MITSUBISHI GOT, MODBUS[®] communication.

Power-supply panel
When you open the panel, you will see the power-supply connection terminal. (Note 1)

LED display
Display each status.

Power-supply section

Server section

CC-Link communication section

Contact output section

Demand monitor section

LED display
Display each status.

CC-Link station number setting switch
Set CC-Link station number.

CC-Link transmission speed setting switch
Set CC-Link transmission speed.

Demand monitor section connection terminal
Connect cable to pulse input, alarm output and control output for demand monitoring. (Note 2)

Contact output terminal block
Closed when conditions monitoring function conditions are met. Connect external equipment such as buzzers and lamps.

CC-Link terminal block
Connect CC-Link communication cable.

Front surface (cover of Server section opened)/bottom surface (CC-Link transmission device)

●Front surface (cover of Server section opened)

CompactFlash™ memory card EJECT button
Push the button and remove the CompactFlash™ memory card.

MODE/STOP/RUN switch
Normally, used in RUN state.

RESET/SELECT switch
Used when resetting the main unit.

CompactFlash™ memory card
Stores programs for collecting and displaying data. Data collected is also saved to it. (Note 3)

●Bottom surface

RS-232 interface
Not used.

Battery storage compartment
Store the battery. Remove the cover and connect the connector. (Note 4)

(Note 1) Connect to AC100-240V(+10%, -15%) 50/60Hz(±5%). Do not connect to a power supply other than that specified as this may cause an accident.

(Note 2) A separate power supply is required for the demand monitor section when using. When using the main device, AC100-240V(+10%, -15%) 50/60Hz power is required for the demand monitor connector terminals V1, V2. It is possible to connect power from the power-supply module.

(Note 3) CompactFlash™ memory cards are used in a constantly attached state. If they are removed while the power is on or the memory card is being accessed, this product will malfunction.

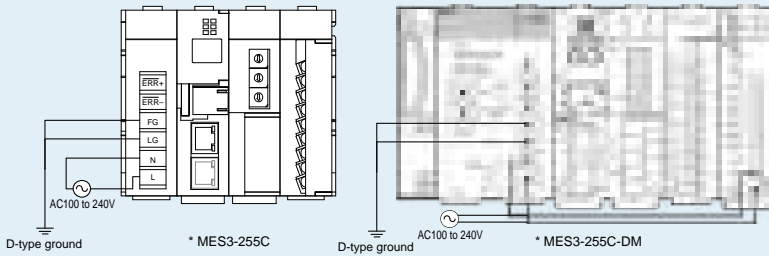
- When removing the card from the memory card slot, be sure to place the RESET/SELECT switch in the SELECT position and remove it only after turning off the power supply and the CF CARD LED has turned off.
- Do not use the CompactFlash™ memory card with any other product. This could corrupt the internal data.
- Do not insert a CompactFlash™ memory card other than the one included in the package in this device. If a different card is inserted, the system will not operate correctly.

(Note 4) Be sure to exchange the battery within three minutes after turning off the power. If more than three minutes passes after the battery is removed, the final one hour of data may be lost or the clock may initialize. (Data or configuration settings from more than one hour before will not be initialized). If the clock initializes, please set again after backing up the data. Refer to the operating manual (hardware edition) for the battery replacement procedure.

Connection Diagram

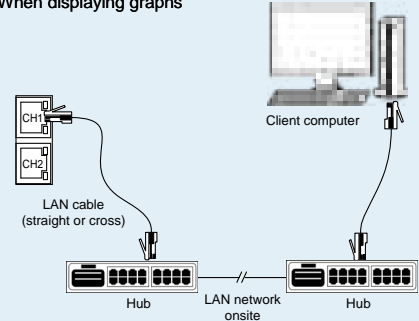
Model: MES3-255C-EN, MES3-255C-DM-EN

●Power-supply section

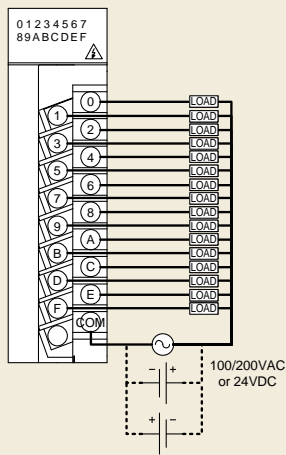


●Server communications section (LAN interface)

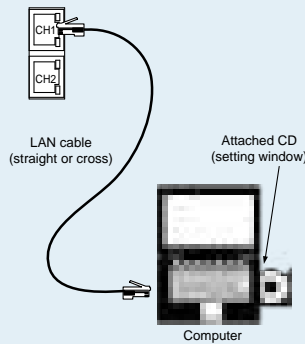
When displaying graphs



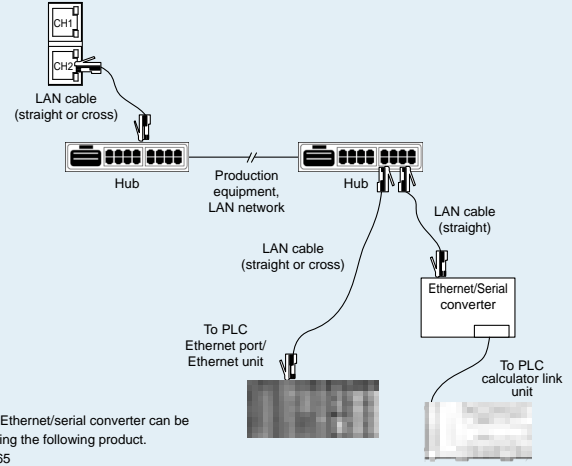
●Connecting point output section



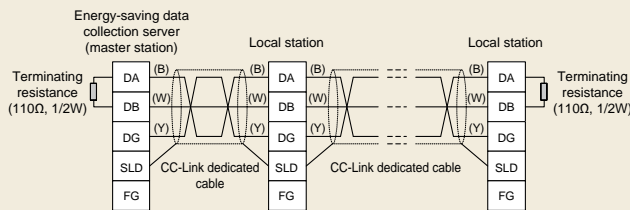
When setting (CH1)



When connecting the PLC (CH2)

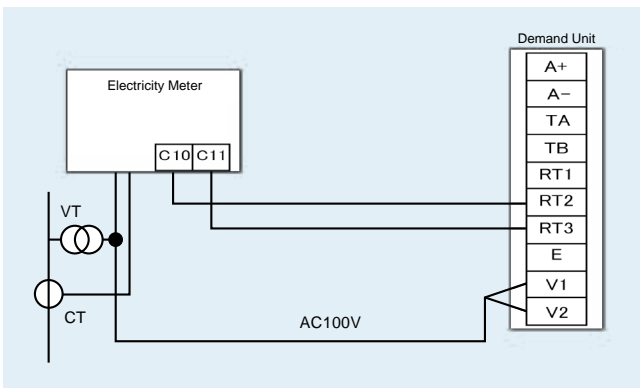


●CC-Link communication section



Demand monitor section

Where the transaction meter of the multi-measuring power demand meter is 10,000pulse/kWh

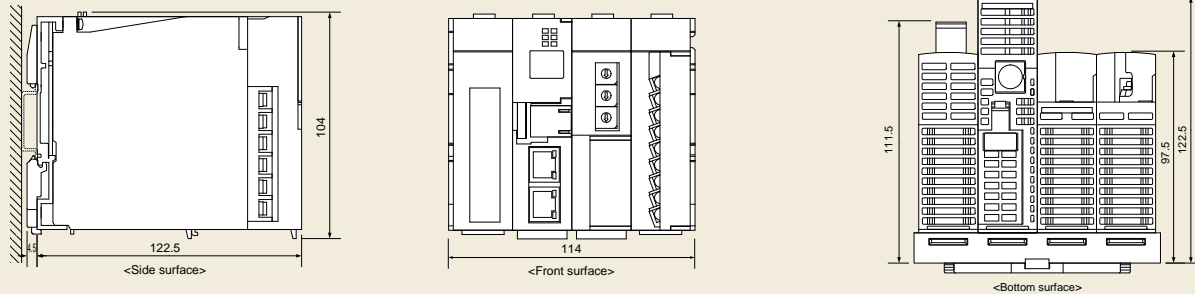


External Diagram/Bundled Products List

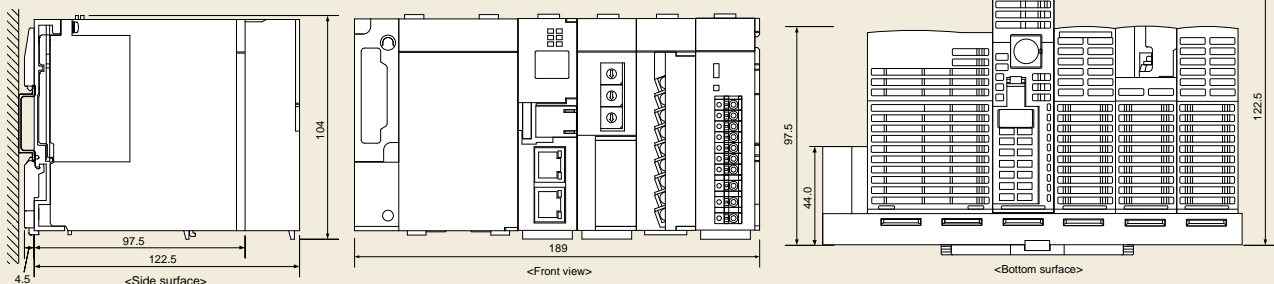
● External dimensions

Unit : mm

MES3-255C-EN



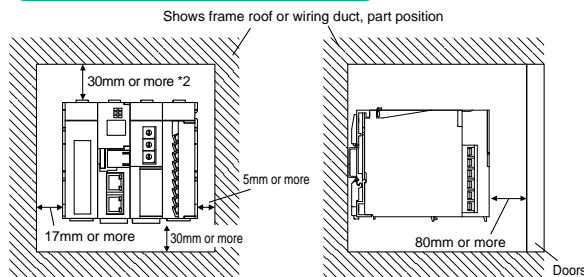
MES3-255C-DM-EN



● Peripheral installation conditions

MES3-255C-EN

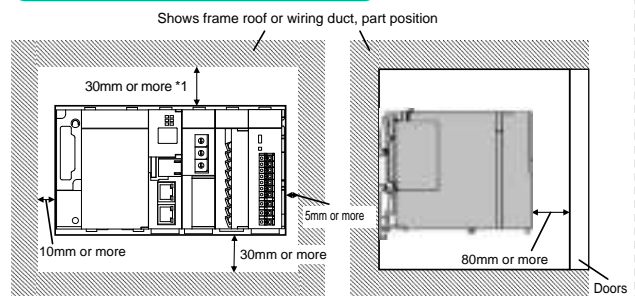
Peripheral installation conditions ^{*1}



*1 These are the conditions when considering radiation. At the same time, please secure enough space to replace the battery in the lower layer of the main unit.
*2 When height of the wiring duct is 50mm or less. Others are 40mm or more.

MES3-255C-DM-EN

Peripheral installation conditions



*1 When height of the wiring duct is 50mm or less. Others are 40mm or more.

Bundled Products List

Product Name	CC-Link communication product	
	MES3-255C-EN	MES3-255C-DM-EN
Energy-saving Data Collection Server (main unit)		1
CompactFlash™ memory card (software)		1
Setup software (CD-R)/operating manual collection		1
Battery (installed in lower surface of main unit battery section) *1		1
Frame attachment screw	4 (M4 x 12)	4 (M4 x 14)
CC-Link terminal resistance (black: 110Ω/2W) (white: 130Ω/2W)		Black: 2 White: 2
IEC rail attachment adapter		Small 2 Large 2
IEC rail attachment screw (M5 x 10)		2
IEC rail attachment corner washer		2
IEC rail attachment stop metal clamp		2
Operating manual hardware edition		1

*1 To purchase a replacement battery (model name: Q6BAT), inquire at the dealership where you purchased the main product.

Support Terminal

MES3-255C-EN, MES3-255C-DM-EN (CC-Link)

Product Name	Icon/type name	Station type	Number of occupying stations
EnergyMeasuringUnit (1P2W, 1P3W, 3P3W)	EMU4-BD1-MB	Remote device station	1 station occupied
EnergyMeasuringUnit (1P2W, 1P3W, 3P3W, 3P4W)	EMU4-HD1-MB	Remote device station	1 station occupied
EnergyMeasuringUnit (1P2W, 1P3W, 3P3W, 3P4W)	EMU4-FD1-MB	Remote device station	1 station occupied
Energy measuring standard model *1	EMU4-BM1-MB	Remote device station	1 station occupied
Energy measuring high performance model *1	EMU4-HM1-MB	Remote device station	1 station occupied
Insulation Monitoring model *1	EMU4-LG1-MB	Remote device station	1 station occupied
Energy measuring extension model for same voltage system *2	EMU4-A2	Remote device station	*3
Energy measuring extension model for different voltage system *2	EMU4-VA2	Remote device station	*3
Energy measuring extension model for analog input *2	EMU4-AX4	Remote device station	*3
Energy measuring extension model for pulse/digital input *2	EMU4-PX4	Remote device station	*3
EnergyMeasuringUnit (Power reception and distribution monitoring (standard product 3 circuits))	EMU2-RD3-C	Remote device station	1 station occupied
EnergyMeasuringUnit (Power reception and distribution monitoring (standard product 5 circuits))	EMU2-RD5-C	Remote device station	1 station occupied
EnergyMeasuringUnit (Power reception and distribution monitoring (standard product 7 circuits))	EMU2-RD7-C	Remote device station	1 station occupied
EnergyMeasuringUnit (Power reception and distribution monitoring (3P4W 2 circuits))	EMU2-RD2-C-4W	Remote device station	1 station occupied
EnergyMeasuringUnit (Power reception and distribution monitoring (3P4W 4 circuits))	EMU2-RD4-C-4W	Remote device station	1 station occupied
EnergyMeasuringUnit	EMU3-DP1-C	Remote device station	1 station occupied
MDU breaker (WS-V)	MDU(WS-V) NF250-SEP/HEV with MDU	Remote device station	1 station occupied
MDU breaker (WS)	MDU(WS) NF400-SEP/HEP with MDU NF600-SEP/HEP with MDU NF800-SEP/HEP with MDU	Remote device station	1 station occupied
Low-voltage air circuit breaker (AE-SW with CC-Link interface unit)	AE-SW(BIF-CC)	Remote device station	1 station occupied
Electronic multi-measuring instrument	ME96SSHA-MB	Remote device station	1 station occupied
Electronic multi-measuring instrument	ME96SSRA-MB	Remote device station	1 station occupied
Electronic multi-measuring instrument	ME96SSH-MB	Remote device station	1 station occupied
Electronic multi-measuring instrument	ME96SSR-MB	Remote device station	1 station occupied
Electronic multi-measuring instrument	ME96NSR	Remote device station	1 station occupied
Electronic multi-measuring instrument with transmission function	ME110SSR-C(H)	Remote device station	1 station occupied
Electronic multi-measuring instrument with transmission function	ME110NSR-C	Remote device station	1 station occupied
Thermocouple temperature input unit	AJ65BT-68TD	Remote device station	4 station occupied
Platinum resistance temperature sensor Pt 100 temperature input unit	AJ65BT-64RD3	Remote device station	4 station occupied
Analog-digital conversion unit	AJ65BT-64AD	Remote device station	2 station occupied
Terminal block type 24 VDC input unit (8 points)	AJ65SBTB1-8D	Remote I/O station	1 station occupied
Terminal block type 24 VDC input unit (16 points)	AJ65SBTB1-16D	Remote I/O station	1 station occupied
Terminal block type 24 VDC input unit (32 points)	AJ65SBTB1-32D	Remote I/O station	1 station occupied
Terminal block type DC input transistor output combined unit (Input 8 points, Output 8 points)	AJ65SBTB1-16DT	Remote I/O station	1 station occupied
Terminal block type DC input transistor output combined unit (Input 16 points, Output 16 points)	AJ65SBTB1-32DT	Remote I/O station	1 station occupied
CC-Link master/local unit (Local station)	QJ61BT11N	Intelligent device station	1 station occupied
CC-Link master/local unit (Local station)	LCPU/LJ61BT11	Intelligent device station	1 station occupied

*1 EMU4-BM1-MB, EMU4-HM1-MB, EMU4-LG1-MB are main units of EcoMonitorPlus.

*2 EMU4-A2, EMU4-VA2, EMU4-AX4, EMU4-PX4 are extension units of EcoMonitorPlus.

*3 Combination of main unit and extension unit occupied 1 station.

MES3-255C-EN, MES3-255C-DM-EN (MODBUS®)

Product Name	Icon/type name
Electronic multi-measuring instrument	ME96SSHA-MB
Electronic multi-measuring instrument	ME96SSRA-MB
Electronic multi-measuring instrument	ME96SSEA-MB
Electronic multi-measuring instrument	ME96SSH-MB
Electronic multi-measuring instrument	ME96SSR-MB
Electronic multi-measuring instrument	ME96SSE-MB
EnergyMeasuringUnit (1P2W, 1P3W, 3P3W)	EMU4-BD1-MB
EnergyMeasuringUnit (1P2W, 1P3W, 3P3W, 3P4W)	EMU4-HD1-MB
EnergyMeasuringUnit (1P2W, 1P3W, 3P3W, 3P4W)	EMU4-FD1-MB
Energy measuring standard model *1	EMU4-BM1-MB
Energy measuring high performance model *1	EMU4-HM1-MB
Insulation Monitoring model *1	EMU4-LG1-MB
Energy measuring extension model for same voltage system *2	EMU4-A2
Energy measuring extension model for different voltage system *2	EMU4-VA2
Energy measuring extension model for analog input *2	EMU4-AX4
Energy measuring extension model for pulse/digital input *2	EMU4-PX4

*1 EMU4-BM1-MB, EMU4-HM1-MB, EMU4-LG1-MB are main units of EcoMonitorPlus.

*2 EMU4-A2, EMU4-VA2, EMU4-AX4, EMU4-PX4 are extension units of EcoMonitorPlus.

Related Products

EcoMeasure III daily/monthly report specific consumption analysis software

This software supports the specific consumption analysis graph and ledger preparation of daily reports, monthly reports and annual reports from CSV files collected and output by the Mitsubishi Electric EcoWebServer III Energy-saving Data Collection Server.

* The supporting product version, EcoWebServer III with demand monitoring function, for EcoMeasure III, will be released soon.

Features

(1) Easily create daily, monthly and annual reports.

- Ledger prepared ledger is saved as an Excel file in user-designated place.

(2) Easily perform specific consumption management as the index of energy-saving activities.

- Possible to manually input production volume and perform specific consumption management of energy information from EcoWebServer III and E-Energy.
- Possible to prepare each specific consumption graph (zoom, daily, weekly and monthly).

(3) Easily collect data.

- CSV files stored in EcoWebServer III and E-Energy can be downloaded with simple operations.

Product Appearance



Specifications

Item		Specifications	
Model name		MES3-SW1-DR-FR	
Language		English, Chinese **	
Connection devices	Number of units	8 units maximum (combination of following target devices)	
	Target devices	EcoWebServer III	
Number of virtual measurement points		Maximum 95 points (Total of 95 points including virtual measurement points for calculating measurement management points and virtual measurement points for input.) * Four arithmetic operations of up to 64 measurement management points (including constants) can be registered in the virtual measurement points for calculation.	
Number of virtual measurement point groups		Maximum five groups *Addition/Subtraction calculations for up to 32 virtual measurement points can be registered in the virtual measurement point groups.	
Ledger creation function	Ledger creation	Daily report creation, monthly report creation, annual report creation	
	Maximum number of items	The daily, monthly and annual reports can have up to 2,250 output items.	
	Calculation items	Analog (including specific consumption)	Maximum, minimum, average
		Pulse	Total, maximum, minimum, average
Demand		Maximum	
Specific consumption management function	Specific consumption display	Daily specific consumption, weekly specific consumption, monthly specific consumption and zoom specific consumption *2	
	Number of specific consumption	Maximum 100 points	
	Specific consumption target value	Can set by each specific consumption	
	Graph display	Specific consumption, target value, production volume, power used (kWh), accumulated power volume (kWh) * The specific consumption/target value/production volume units can be set freely.	
		Auto-scale function	
	List display	Daily/weekly/ monthly specific consumption	Power volume (kWh), production volume, specific consumption, accumulated power volume (kWh), accumulated production amount, specific consumption target value
Zoom specific consumption		Power volume (kWh), production volume, specific consumption, power use/hour	
Automatic updating	Daily/weekly/ zoom specific consumption	Contents of display newly updated at designated time once per hour each hour	
	Monthly specific consumption	Contents of display newly updated at designated time once per day each day	
Operation environment	OS (basic software)	Microsoft Windows Vista® (32bit) (SP2) Home Basic / Home Premium / Business / Enterprise / Ultimate	
		Microsoft Windows Server 2003(32bit) (SP2) Standard	
		Microsoft Windows 7(32bit/64bit)(SP1) Professional	
		Microsoft Windows 8.1 Pro (32bit/64bit)	
		Microsoft Windows 10 Pro (32bit/64bit)	
	Required software	Microsoft Excel 2003(SP3) / 2007(SP3) / 2010(32bit/64bit)(SP1)	
	CPU	If using Windows XP : Pentium processor of 400MHz or higher or a compatible microprocessor (DOS/IV- compatible) If using Windows Vista® or Windows 7 : As recommended for the operating system	
	Memory *3	As recommended for the operating system	
	Hard-disk *3	Software: Approx. 100MB or more	Data: 8GB or more *4
	CD-ROM drive	1 drive (for installing software)	
LAN	10/100/1000BASE-T x1		
USB connector (Type A)	1 connector (for connecting hardware key)		
Display resolution	800x600 pixels or more		
Display color	256 colors or more		
Number of licenses (number of computers installed in)		<ul style="list-style-type: none"> • 1 license per 1 client • Hardware key attached (USB) (1 unit) 	

*1 It needs to start in the Chinese version of Microsoft operating system (OS).

*2 If virtual measurement points for input or measurement points for E-Energy are included, no zoom specific consumption is displayed.

*3 Note that the required memory and available hard-disk space may vary depending on the system environment.

*4 Shows the capacity required when used with maximum eight subsystems connected.

[Daily Report]

[Monthly Report]

[Annual Report]

We would like to improve the productivity and quality without changing the existing equipment.

We cannot afford large cost required for new equipment or modifying the existing equipment.

We would like to save energy, and be environmentally friendly.

We do not have enough workers engaged in examination for improvements and migration.

We would like to acquire and analyze data quickly.

We would like to preventive maintenance.



Equipment System Migration in 3 Steps

Mitsubishi Electric will propose a variety of products and functions based on various keywords to eliminate concerns of customers.

Step 1 [Stable operation] [Extension of equipment service life] [Preventive maintenance]

- Selecting the proper latest model
- Downsizing and space saving
- Replacing existing products manufactured by other companies with Mitsubishi products
- Improving the maintainability
- Utilizing the software assets and resources
- Improving the operability
- Step-by-step migration
- Preventive maintenance realized by migration

Step 2 [Productivity improvement]

- High-speed, high-accuracy control
- Smart wiring
- High-speed, large-capacity communication
- Networking

Control equipment Not only various functions, high speed, large capacity and extensive networking but also top class reliability are proved by long-term actual achievements.

Drive equipment

Mitsubishi PLCs
MELSEC iQ-R series

Mitsubishi micro PLCs
MELSEC iQ-F series **MELSEC-F**

Mitsubishi graphic operation terminals
GOT2000
Graphic Operation Terminal

MELSEC G series **MELSEC L series**

Mitsubishi inverters
Mitsubishi AC servos **FREQROL**
MELSERVO

Migration has realized energy-saving and environment friendly.

Migration requires only small cost!

The productivity and quality are improved using the existing equipment!

Losses in the maintenance work reduced by adopting one manufacturer for various equipment!

Data can be acquired and analyzed quickly!

Automated production expanded, and the efficiency improved.

Preventive maintenance and product life

Preventive maintenance of equipment and devices is required to use FA equipment for a long time.

There are two concepts of preventive maintenance.

Daily maintenance and inspection (Visual inspection)

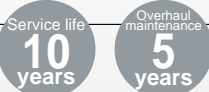
- Indicator lamps (in the equipment main body, devices and units)
- Equipment mounting status
- Cable connection status

Periodic maintenance and inspection (Visual inspection)

- Maintenance of electrical equipment
- Ambient environment
- Checking stored programs

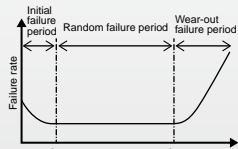
Product life

- Mitsubishi Electric recommends 10 years as the service life of FA equipment.



Replacing a unit whose service life is expired

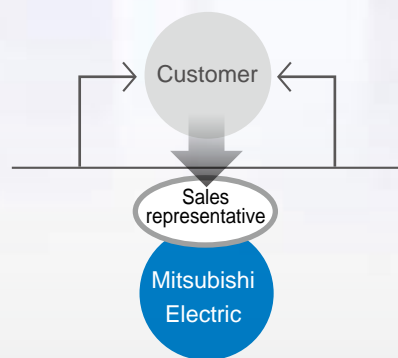
Even if a unit is operating normally, the failure rate is high because each part is worn out and damages (related to the power ON time, surge, etc.) are accumulated.



- Mitsubishi Electric recommends overhaul maintenance of FA equipment in 5 years since the start of operation.

- Maintenance of units (to prevent short-circuit by removing dust and adhering substances)
- Replacement of parts requiring periodic replacement (such as fuses, batteries and memory cards)
- Overhaul of units incorporating parts having limited service life*

*Aluminum electrolytic capacitors, fuses, relays, etc.



Mitsubishi Electric will support migration of equipment for the customer in cooperation with the sales representative.

[Quality improvement] [Promotion of energy saving]

- Standardizing the maintenance tool
- Utilizing the GOT
- Quick recovery from machine alarms
- Supporting and implementing energy saving

Mitsubishi Electric's motor control technology is advancing everyday. Mitsubishi drive equipment contribute to the realization of not only high functions and high performance but also energy saving.

Mitsubishi industrial robots

MELFA



[Visualization] [Automation] [Safety and security measures]

Step 3

- Acquiring, judging and analyzing data
- Image recognition inspection
- Automating inspections and judgments
- Safety control equipment
- Automation and labor saving by robots
- Duplicating the CPU
- Constructing the MES (manufacturing execution system)

Distribution control equipment

Mitsubishi Electric supports stable supply of electric power with its wide variety of products in the distribution control field, and proposes aggressive energy saving achieved by migration.

Mitsubishi low-voltage distribution control equipment



MS-T series

Mitsubishi PLCs

How is the current status of the existing PLC?

Mitsubishi PLCs



A/QnA (large type), A2C, AnS (small type), AOJ2(H)

[Concerns about the existing equipment]

The equipment is working fine, but is getting old.

We would like to upgrade but the performance has reached the limit.

Components from different brands are installed in the equipment which is making maintenance troublesome.

[Concerns for migrating]

Need to keep the equipment running.

Don't know to which product to migrate to.

Can't read out the existing programs.

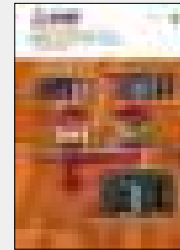
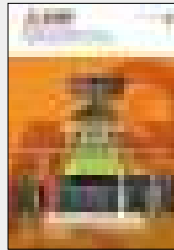
Mitsubishi Electric can eliminate these concerns!

Mitsubishi Electric offers various tools for replacement with latest models.

Mitsubishi Electric

A to Q migration catalogs and case examples

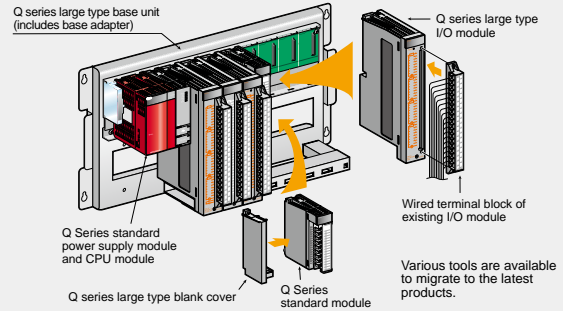
- MELSEC-A Series (large type) Transition Guide
- MELSEC A Series (small type) Transition Guide
- MELSEC-A Series Transition Examples



For example

A to Q hardware replacement!

The hardware can be replaced without changing the size and location.

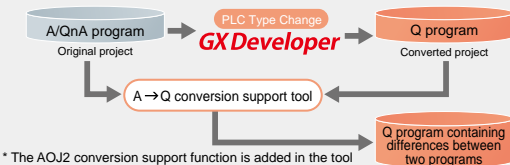


For example

A to Q program replacement!

Existing programs can be automatically converted into Q programs using "PLC Type Change" in GX Developer (also included with GX Works2).

By converting both an existing program and a converted program into "Q program containing differences between two programs" using the A to Q conversion support tool (which can be downloaded free of charge), the correction efficiency is considerably improved.



* The AOJ2 conversion support function is added in the tool (Ver. 1.09 or later).

Migrate to the latest Mitsubishi PLCs!!

Mitsubishi supports migration with various tools and accumulated know-how.

Mitsubishi PLCs

MELSEC iQ-R
series



▶ P.10

MELSEC Q series



▶ P.88

MELSEC L series



▶ P.118



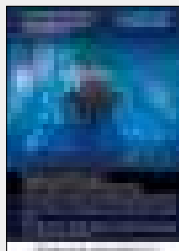
Partner manufacturers

A to Q migration tool catalogs

● Migration tool catalogs



Mitsubishi Electric Engineering Co., Ltd.



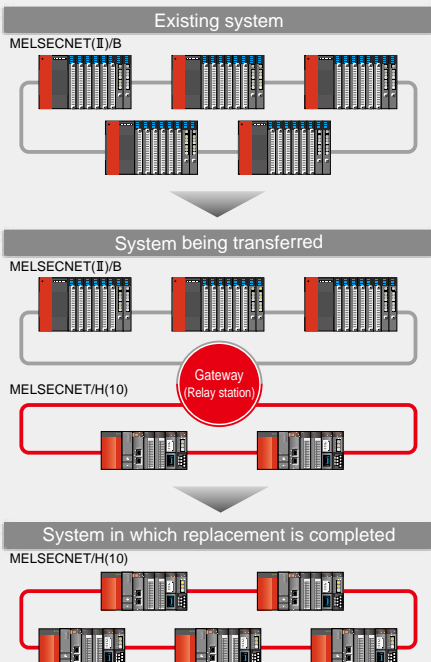
Mitsubishi Electric System & Service Co., Ltd.

Tools to easily migrate from A series to Q series available.

For example

Network replacement!

Mitsubishi data link system "MELSECNET" can be replaced in various methods.



[Benefits of migration]

3 year warranty!	Easy connection with multiple communication ports!
High speed and large capacity CPU!	Improve efficiency with various convenient instructions!
Abundant lineup enables selection of product suitable for the required specifications.	The control panel can be downsized.
Enhanced program security function!	

Mitsubishi Micro PLCs

How is the current status of the existing PLC?

Mitsubishi micro PLCs



F1, F1J, F2, FX1, FX2, FX2C, FX0, FX0S, FX0N, FX1S, FX1N, FX1NC, FX2N, FX2NC

FX1S/FX1N/FX1NC
To be discontinued
December 2015

FX2N/FX2NC
Discontinued
September 2012

[Concerns about the existing equipment]

The equipment is working fine, but is getting old.

We would like to upgrade but the performance has reached the limit.

Components from different brands are installed in the equipment which is making maintenance troublesome.

[Concerns for migrating]

Need to keep the equipment running.

Don't know to which product to migrate to.

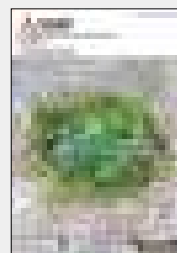
Can't read out the existing programs.

Mitsubishi Electric can eliminate these concerns!

Mitsubishi Electric offers various tools for replacement with latest models.

Migration catalog

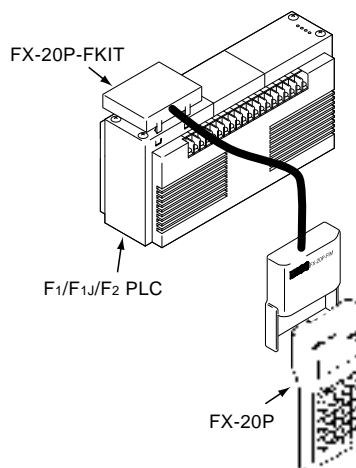
● FX Migration Guide



For example

F (F1, F1J, F2) series replacement!

The combination "FX-20P + FX-20P-FKIT" is available.



The F (F1, F1J, F2) series can be replaced by the FX series while reading out existing programs using the combination "FX-20P + FX-20P-FKIT". After existing programs are transferred to the FX series, they can be corrected and debugged using GX Works2.

FX-20P
Discontinued
December 2012

* Contact your local dealer.

Migrate to the latest Mitsubishi PLCs!!

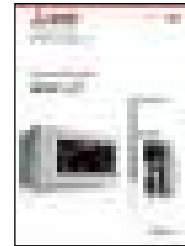
Micro PLCs are downsized compared to legacy models, and can fit into the existing space. Programs can be replaced with FX-20P-FKIT for F series or with GX Works2 for FX series.

Mitsubishi micro PLCs

MELSEC iQ-F series

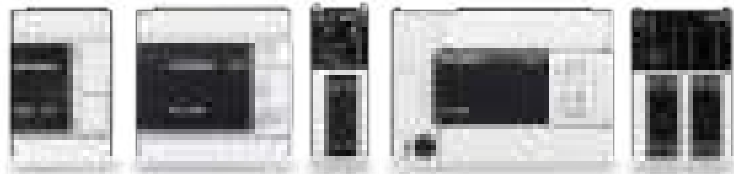


▶P.48



Mitsubishi micro PLCs

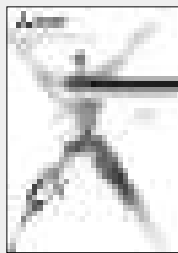
MELSEC-F FX3 series



▶P.134

●Migration Guide from FX2N/FX2NC to FX3

●Migration Guide from FX1N/FX1NC to FX3



For example

Legacy FX series replacement!

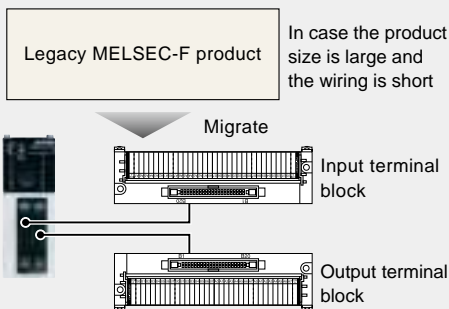
Legacy FX series program can be transferred to the latest product by using PC type change function of GX Works2.

Programming software
GX Works2



For example

Replacing wiring!



Large size legacy product can be replaced easily with connector type FX series PLC and terminal block product of partner vendors.
(Connector type requires 24 V DC power supply)

[Benefits of migration]

3 year warranty!

Easy connection with multiple communication ports!

Expansion boards enable expansion at low cost!

Convenient built-in functions enable system configuration at low cost!

Abundant lineup enables selection of product suitable for the required specifications.

Improve efficiency with various convenient instructions!

Enhanced program security function!

High-function and compact extension modules are available!

Mitsubishi graphic operation terminals

How is the current status of the existing GOT?

Mitsubishi graphic operation terminals



GOT-A900 series



GOT-F900 series



[Concerns about the existing equipment]

The product is getting old and is not well maintained.

Screen datas are not backed up.

Components from different brands are installed in the equipment which is making maintenance troublesome.

[Concerns for migrating]

Do we have to drill holes to replace?

Can the screen data be replaced?

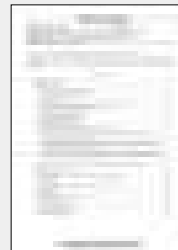
Can we replace other brand HMI with GOT1000 or GOT2000 series products?

Mitsubishi Electric can eliminate these concerns!

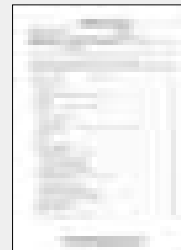
Mitsubishi Electric offers various tools for replacement with latest models.

Migration documents

● Technical Bulletin for replacement of GOT-A900 with GOT1000



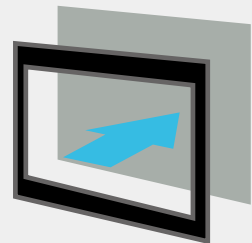
● Technical Bulletin for replacement of GOT-1000 with GOT2000



For example

Migration tool

Optional attachment is available for replacing GOT-900 to GOT1000 series with different screen size.



For example

Replacing of a Mitsubishi legacy product or other brand HMI!



Screen data created in the GOT-A800 series SW3NIW-A8GOTP



Screen data created in the GP-PRO/PB-III series manufactured by Digital Electronics Corporation



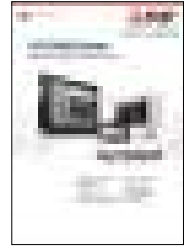
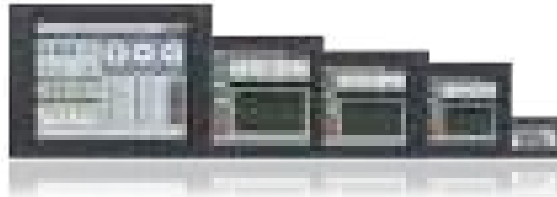
Migrate to the latest Mitsubishi Graphic Operation Terminals!!

GOT series has same panel-cut dimensions when the screen size is the same. Screen data can easily be replaced using GT Works3. GOT with the latest functions can reduce loads on the PLC, and can back up data.

Mitsubishi Graphic Operation Terminals

GOT2000

Graphic Operation Terminal



▶ P.566

[Benefits of migration]

3 year warranty!

Front side USB port enables easy maintenance*

* Excluding some models

Can be connected to various networks!

Easy connection with multiple communication ports!

Decentralize control to GOT to assure stable operation!

Improves visibility with brilliant color LCD!

Abundant lineup enables selection of product suitable for the required specifications.

Logging function to improve quality!

GOT Mobile

Monitor your worksite anytime, anywhere.
Check the equipment status using a web browser.



Documents for migrating GOT-F900 series

- GOT-F900 Migration Guide
- Replacement Guide



For example

GT Works3+plus

comes with the following software to convert screen data from GOT-900 series to GOT1000, GOT2000 series.



GT Designer2 classic

GT Designer3

GT Works3 comes with GT Converter2 to convert screen data of legacy models and other brand HMI to GOT1000/GOT2000 series.

Screen design software

GT Works3 GT Works3+plus GT Converter2



Mitsubishi Graphic Operation Terminals

GOT2000 series
GOT1000 series



Mitsubishi inverters

How is the current status of the existing inverter?

Mitsubishi inverters



A700

A500

F500



E500



S500

[Concerns about the existing equipment]

Replacement of service life limited components may be needed soon.

Need to manage and control many units.

Need to improve energy efficiency.

[Concerns for migrating]

Are there compatible products to the existing obsolete products?

How can we replace the parameters?

We are using coil type motor, eddy current joint type motor (AS), direct current (DC) motor, and have difficulty in daily and preventive maintenances.

Mitsubishi Electric can eliminate these concerns!

Mitsubishi Electric offers various tools for replacement with latest models.

Migration documents

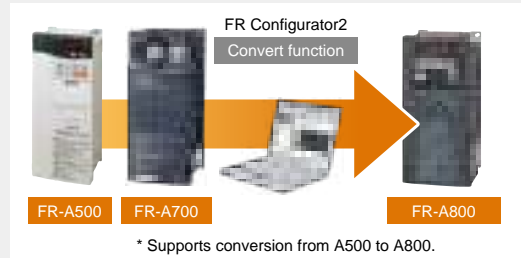
- Inverter migration proposal



For example

Convenient compatibility

- Parameters can be converted easily using the convert function of "FR Configurator2" (optional) parameter setting software.



- The mounting compatibility with conventional models is secured.
- Mitsubishi Electric offers the (optional) mounting compatibility attachment though the compatibility may be different in some models.



Advantages of migration to the 800 series

- In the FR-A800 and F800 series, the trace function can store the operation status (such as the output frequency) just before activation of the protection function in the RAM built in the inverter. The stored data (trace data) can be copied to the USB memory. Troubleshooting can be performed easily even in distant places when the trace data is captured by the software (FR Configurator2) set up in the inverter.

The trace data stored in the built-in RAM is erased when the power is turned OFF or the inverter is reset.



Migrate to the latest Mitsubishi inverters!!

Abundant tools and documents to support migration are available. Parameters can be converted easily using FR Configurator2. Mitsubishi inverters with the latest functions considerably improves energy saving and ease of maintenance!

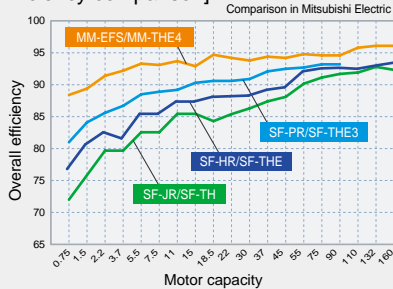
Energy saving

Replace with high-efficiency IPM motor (MM-EFS series)



- The FREQROL-F800 series is compatible with the IPM motor.
- Replacement is easy due to frame number being the same as that of the standard three-phase motor.

[Efficiency comparison]



- IPM motor with permanent magnet is more efficient than the high-performance energy-saving motors.
- Efficiency level meets "IE4 (super premium efficiency)" of international standard IEC 60034-30. (As of March 2013)

Improved ease of maintenance

Latest series use long service-life components and most advanced life diagnosis which improves ease of maintenance.

- Approximate life of limited service life components

Part name	Approximate service life	Service life specified by JEMA
Cooling fan	10 years	2 to 3 years
Capacitor for smoothing main circuit	10 years	5 years
Smoothing capacitor on PC Board	10 years	5 years

- Deterioration degree of main circuit capacitors, control circuit capacitors and rush current suppression circuits can be monitored.
- Self-diagnosis function sounds alarm for components having limited service life to prevent failures.

It is economical to use Mitsubishi inverters for drive when Mitsubishi PLCs are used for control. CC-Link and RS-485 communication enable precise control of multiple inverters.

FREQROL



[Benefits of migration]

- Improved ease of maintenance with long service life components.
- Easy control with abundant network connections!
- Life diagnosis function notifies remaining service life of components!
- "Close contact" installation design saves installation space (E700 and D700).
- Easy operation with M dial
- Easy wiring (A800, F800, E700SC and D700).
- Abundant lineup enables selection of product suitable for the required specifications!
- Parameters can be copied using the USB memory (A800 and F800).
- The magnet motor is also available (A800 and F800).
- Easy replacement of cooling fan

Mitsubishi industrial robots

How is the current status of the existing robot?

Mitsubishi industrial robots



[Concerns about the existing equipment]

Want to improve productivity of the equipment.

Maintenance is hard due to increased failures.

Want to visualize all standalone robots.

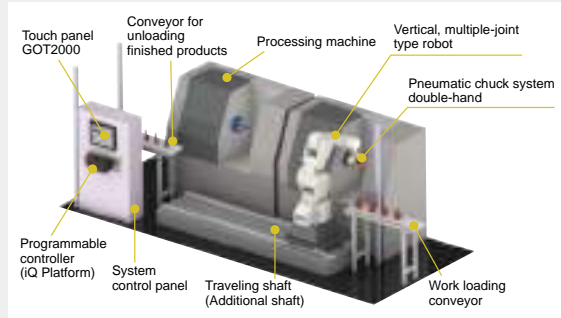
Mitsubishi Electric can eliminate these concerns!

It contributes to productivity, the improvement in reliability, and total cost reduction.

For example

Loading/Unloading of parts to a processing machine

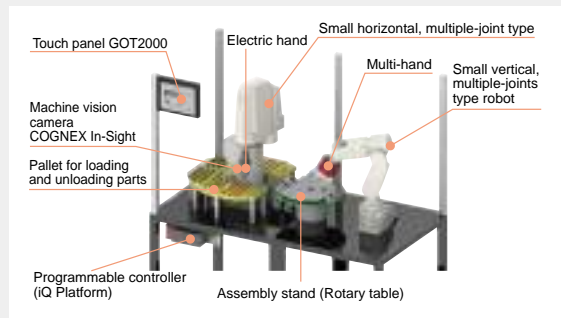
(A lathe, a machining center, a press machine, and a make-up machine, etc.)



For example

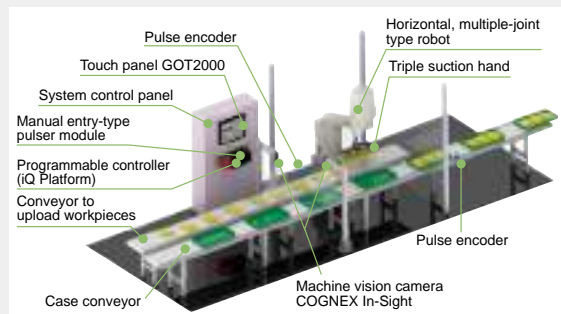
Assembly of electric components

(switch)



For example

Conveyor alignment for packed food products

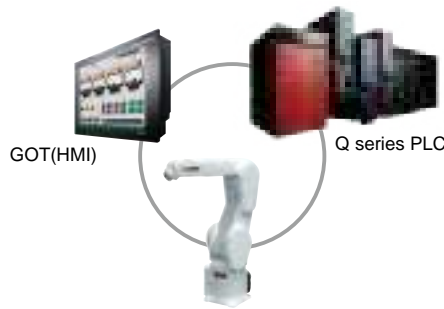


Migrate to the latest Mitsubishi robots!!



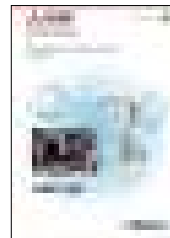
RH-F series

RV-F series



iQ Platform

SQ series supports iQ Platform and enables higher speed control.



▶P.636

Points for the employment of robots

A vertical, multiple-joint type robot realizes high-speed loading and unloading of parts to a processing machine. (Oil mist proof) Additional traveling shaft improves the operating rate of a robot and efficiently utilizes the facility.

Advantages

- Improvement of environmental resistance
- Smooth hand-over of products with various processing machines
- Higher operating rate of robot
- Shorter cycle time

Points for the employment of robots

High-speed parts kitting with a horizontal, multiple-joint type robot, fine assembly with a vertical, multiple-joint type robot, and the ability to handle a variety of workpieces with a high-functioning hand (a multi-hand and an electric hand)

Advantages

- High-speed kitting
- Capable of handling a wide variety of workpieces using only a small space
- No need to change hands to switch a kind of work
- Complicated assembly process
- Reduction of cycle time

Points for the employment of robots

High-speed vision-tracking of horizontal, multiple-joint type robot realizes non-stopping alignment process. It also processes simultaneous tracking for multiple conveyors.

Advantages

- High-speed tracking
- No need of alignment device
- Reduction of cycle time
- Stable quality due to automated process

[Benefits of migration]

High-speed control improves tact time!	Robot CPU in iQ Platform saves wiring
Multiple robots can be controlled together.	Robot can be controlled using PLC language!
Downsized robot saves installation space.	Improved operability with easy connection of GOT

Mitsubishi AC servos

How is the current status of the existing AC servo?

Mitsubishi AC servos



MR-A, MR-J, MR-J2, MR-J2S, MR-H, MR-SA/SB/SC/SD, MR-SO, MR-VA/VC



[Concerns about the existing equipment]

AC servos is not tuned correctly and generates large noise.

Takes time to complete positioning.

Motor seems to be okay but the amplifier is a concern.

[Concerns for migrating]

Are there compatible products to the existing obsolete products?

Can the hardware be replaced easily?

How can we replace the parameters?

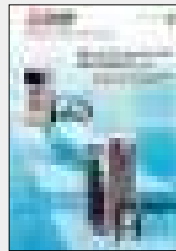
Mitsubishi Electric can eliminate these concerns!

Various tools are available to migrate to the latest products.

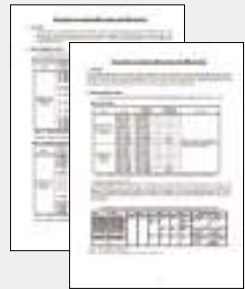
Mitsubishi Electric

Replacement support documents

●MR-J2-Super series migration catalog



●Cautions on replacement of the MR-J/MR-H series



●Migration Guide from MR-J2 Super/J2M series to MR-J4 series

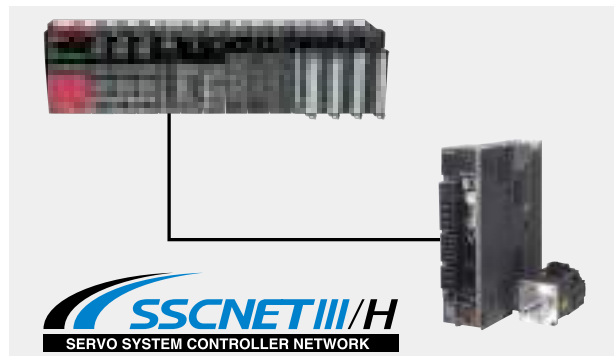


●New Product Newsletter for MR-J2S-B SSCNET conversion unit



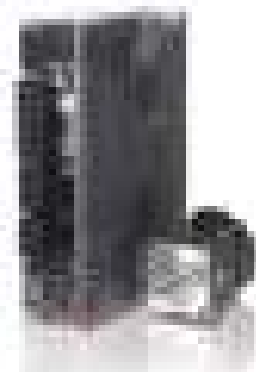
MR-J4-B is recommended for replacing legacy Mitsubishi products and other manufacturers products.

- SSCNET III/H enables a simple system with less wiring.
- MR Configurator2 enables easy adjustment, monitor display, parameter setting, etc.



Migrate to the latest Mitsubishi AC servos!!

Abundant tools to support easy migration are available. In multi-axis control, combining the motion controller contributes to function upgrade and space saving!



►P.270
MITSUBISHI SERVO AMPLIFIERS & MOTORS
MELSERVO-J4

0.05kW to 22kW



Partner manufacturer

●Migration tools available from Mitsubishi Electric System & Service Co. Ltd.

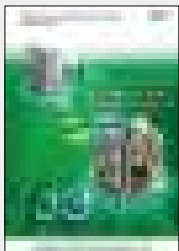
For replacing MR-J series



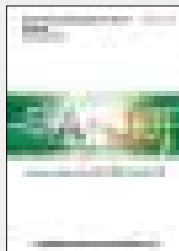
For replacing MR-J2S series



For replacing MR-H series

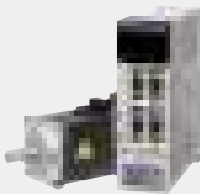


For replacing MR-SA series



For example

In case of MR-J2S series



Servo can be replaced with MR-J3A type using the migration tool.

[Benefits of migration]

Easy servo adjustment to fit the equipment!

Easy wiring with SSCNET III/H or SSCNET III.

High-response control improves tact time!

Easy setting of electronic gear.

Smooth operation due to reduced cogging torque

Easy tuning function

Abundant lineup enables selection of product suitable for the required specifications!

Space saving design allows close contact installation

Mitsubishi low-voltage distribution control equipment

How is the current status of the existing low-voltage distribution control equipment?

Low-voltage circuit breakers



No-fuse circuit breaker NF225-SS series No-fuse circuit breaker NF2000 series

Need to replace the breaker because the current capacity has changed.

Concerned about aging products malfunctioning.

Need to replace the large obsolete products to save space.

Electromagnetic switches



Electromagnetic contactors MS-K series

Concerned about aging products malfunctioning.

Want to save space by migrating to the latest products.

Power management measuring unit



Mechanical measuring unit

Concerned about aging products malfunctioning.

Need to reduce measuring work.

Mitsubishi Electric can eliminate these concerns!

Migrate to the latest Mitsubishi low-voltage distribution control equipment!!



No-fuse circuit breakers



Low-voltage air circuit breakers



Downsized products allows panel space saving.
 Functions can be upgraded just by replacing.
 Can prevent unnecessary operations of the earth-leakage circuit breaker by high function IC.



Electromagnetic contactors **MS-T series**

Terminal cover installed for added safety.
 Downsized products allows panel space saving.



Electronic multi-measuring instruments ME96SS series



LCD improves visibility.
 Easy data collection with communication function.
 Various options facilitate setting changes for the display and output devices (electronic measuring instrument).



Furthermore, Mitsubishi's migration can:

Energy measuring unit
EcoMonitorLight

MDU breaker*

No-fuse circuit breaker/
earth-leakage circuit
breaker equipped with
leakage current indication*

Single-circuit measuring unit, display unit, and setting unit integrated into a single measuring unit. Allows easy and low cost energy "visualization". Built-in MODBUS® communication allows system upgrade.



In addition to circuit breaker function, this product continuously monitors the electric circuit information (power amount, load current, leakage current, etc.) and enables centralized monitoring through communication.



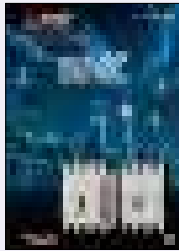
These products monitors leakage current data and investigate causes of electric leakage.



* These equipment are not sold in the USA.

Product catalogs

- Mitsubishi WS-V Series Molded Case Circuit Breakers and Earth-leakage Circuit Breakers
- Mitsubishi WS-AE Series Low Voltage Air Circuit Breakers



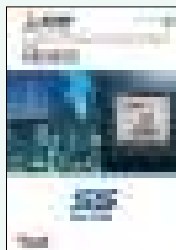
Product catalogs

- Mitsubishi MS-T Series Electromagnetic switches



Product catalogs

- Mitsubishi Super-S Series Electronic Multi-measuring Instrument ME96SS



Mitsubishi FA products can "visualize" power management equipment and of production equipment.

Directly connected to Q series PLC.



Electric power measuring unit [QE84WH]
PLC measures power information up to 4 channels which enables standard data control and state monitoring in each production equipment.



Insulation monitoring unit [QE821LG]
PLC continuously monitors the insulation status and supports preventive maintenance of the production equipment.



[Benefits of migration]

Low-voltage circuit breakers

Downsized to save panel space.

New circuit breaking technology allows higher performance.

Contribute to energy saving and preventive maintenance through monitoring of the electric circuit information using the MDU breaker and others.

Electromagnetic switches

Safe and easy wiring with CAN terminal.

Detachable arc cover makes inspection easy.

Save energy with low power consumption coil.

Electronic multi-measuring instrument

Wide viewing angle LCD improves visibility.

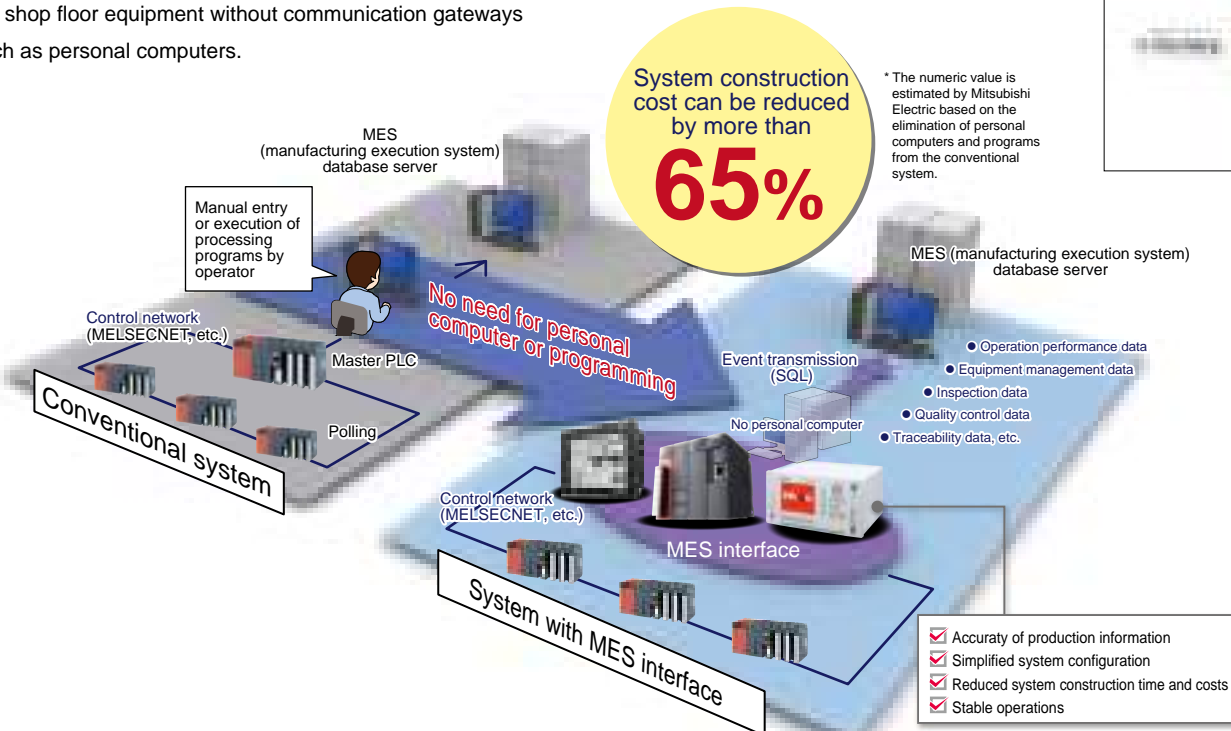
Set data transceiver allows easy setting and management.

The production capability of your factory

The MES interface is the key to realize the visual platform “e-F@ctory”.

A broad lineup of MES interface products of Mitsubishi Electric enables direct connection between the MES (manufacturing execution system) database and the shop floor equipment without communication gateways such as personal computers.

Mitsubishi FA Integrated Solution e-F@ctory

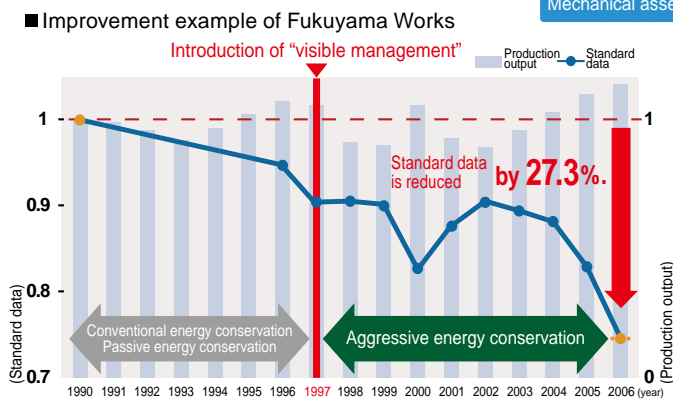
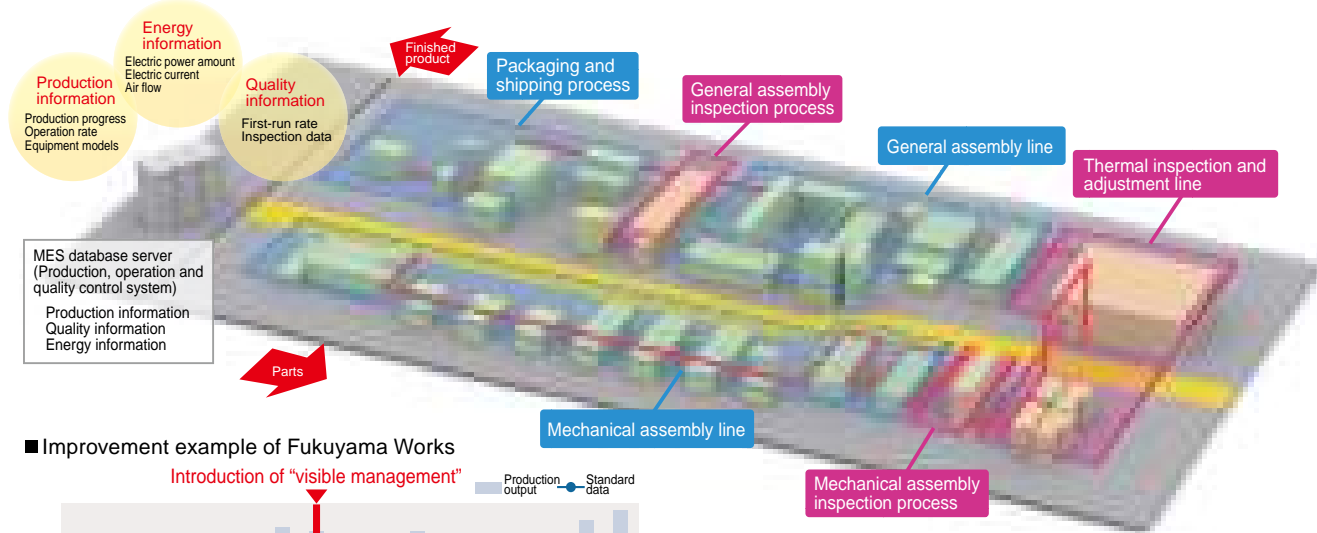


System construction cost can be reduced by more than **65%**

* The numeric value is estimated by Mitsubishi Electric based on the elimination of personal computers and programs from the conventional system.

“Aggressive energy conservation”

Mitsubishi Electric’s Fukuyama Works adopted “visible management”, and is now implement “aggressive energy conservation” efforts. Fukuyama Works has realized an economical and ecological “eco factory”, and uses its eco expertise to engage in the energy conservation business.



Reduction by **27.3% in standard data**
* Performance in 2006 compared to 1990

Reduction of approximately **23 million yen in basic power cost**
* Performance in 2006 compared to 1990

Reduction of approximately **100 million yen** in basic power cost

* Performance in 2006 compared to 1990

Mitsubishi Electric's simple, convenient and compact EcoWebServerIII is advanced to support visible management of energy.

● Mitsubishi Energy-saving Data Collection Server EcoWebServerIII



● What is EcoWebServer?

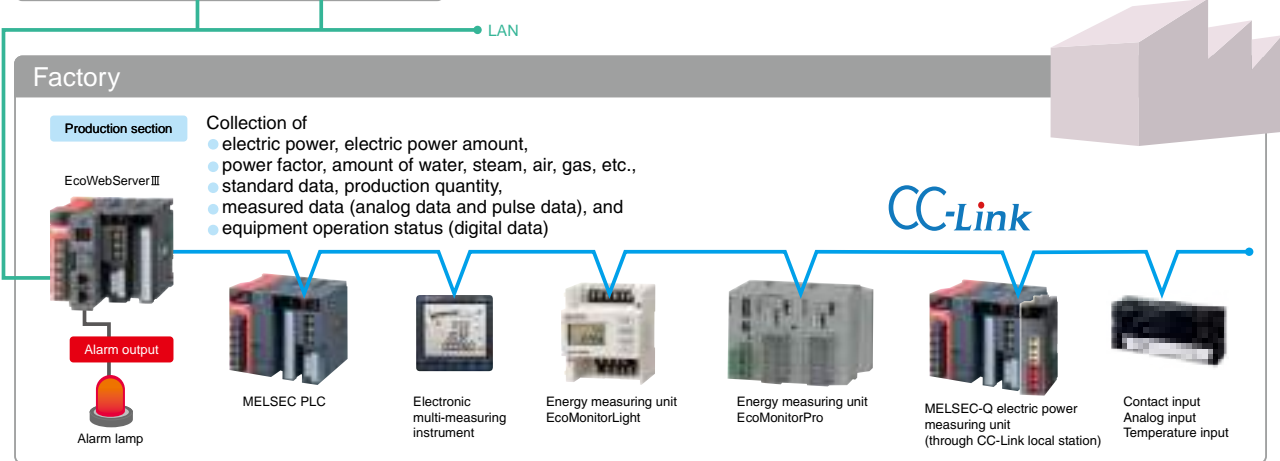
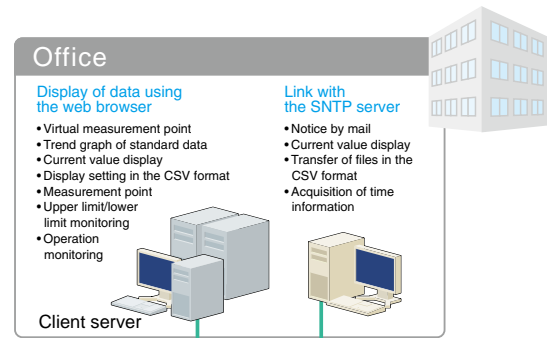
EcoWebServer is an all-in-one type data collection server having excellent functions essential in energy-saving management of alarm units and machines.

Two types selectable



CC-Link connection type

B-NET connection type



Control Field

Drive Field

Distribution Field

Reliable Support

Production discontinuance

Remain available!

Inherited functions

The setting software is provided as an accessory. There is no necessity to create programs.

**Simple setting
Simple extension**

The newly adopted universal design makes graphs easier to see.

Graph display

Virtual measurement and production quantity are incorporated in the standard data control.

Calculation function

The measured data are processed and saved easily.

**CSV format
Compatible with FTP**

Powered up!

Improved performance

The daily data saving period has been extended from 2 months to 6 months. Extended saving period

Extended saving period

The number of virtual measurement points and standard data measurement points have been increased.

Enhanced calculation function

The zoom data collection period has been reduced.

1 minute minimum

Various graph displays are available to construct the "mechanism to let workers be aware" of status changes.



New functions added!

Additional functions

Alarm outputs have been enabled to enhance the monitoring function.

Up to 16 contact outputs

The temperature and humidity data are collected for each section and application.

Multiple comparison

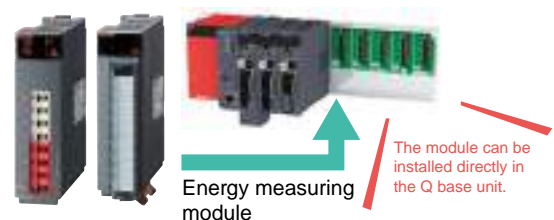
The energy loss in the equipment has been made visible.

Equipment monitoring

Power measurement and insulation monitoring together with PLC migration realize energy saving and preventive maintenance!

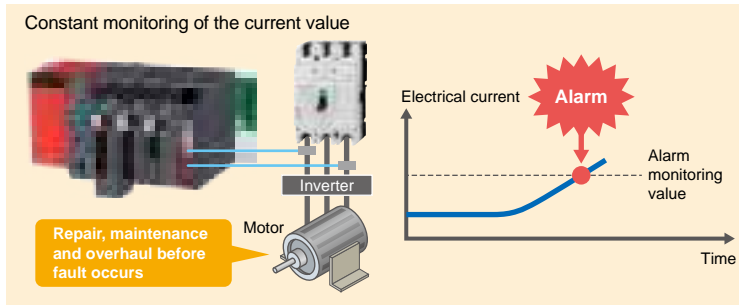


Energy Measuring Module Installation Example

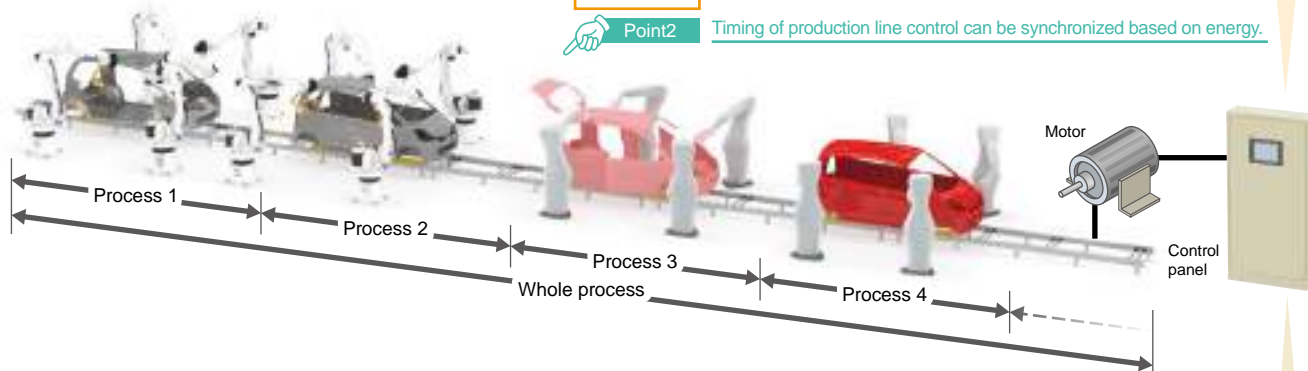


- Specific energy consumption can be managed in detail according to individual items or processes to assist in reducing the power consumption of production equipment and realize energy savings.
- Constantly measuring current (or power) consumption can help prevent serious faults and equipment failure, ultimately resulting in reduced production losses.

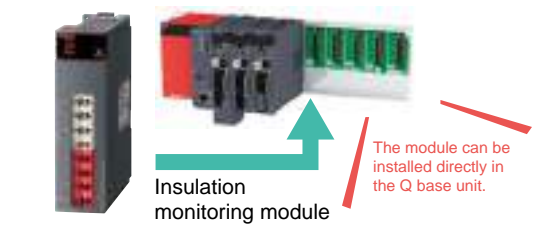
Preventive Maintenance Point1 Constant measurement of the electrical current
Preventive maintenance measures are taken before equipment stoppage.



Energy Saving Point2 Item or process, synchronizing the control timing
Timing of production line control can be synchronized based on energy.

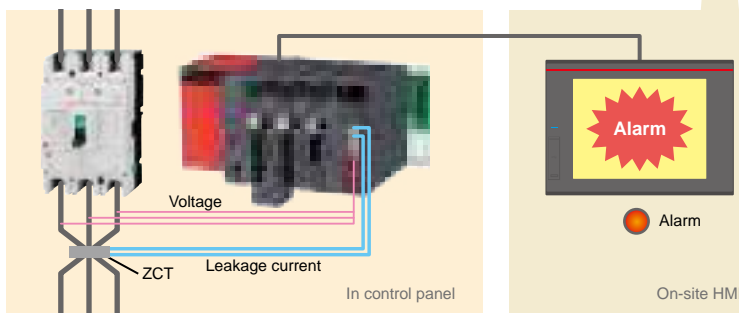


Insulation Monitoring Module Installation Example



- Maintenance man-hours can be reduced by improving the efficiency of periodic inspection work.
- The resistive-component leakage current (Ior) can be measured so that a leakage current caused by insulation deterioration can be identified.

Preventive Maintenance Point3 Constant measurement of the Leakage current value, and constant monitoring for insulation deterioration for each unit/load
Prevention of sudden failure of machines and lines / Detection of insulation deterioration (earth leakage) at early stage



Control Field

Drive Field

Distribution Field

Reliable Support

Production discontinuance

Global web site



Easily accessibility to the FA information of Mitsubishi Electric all over the world!

From "Worldwide" provided at the upper right corner of the top page, you can easily access to the FA web sites all over the world. On the pages for each country, you can check not only products purchasable all over the world but also the information on products developed specially for the region, catalogs and manuals in each language and various regional services. Please utilize "Worldwide" for expanding your business overseas.

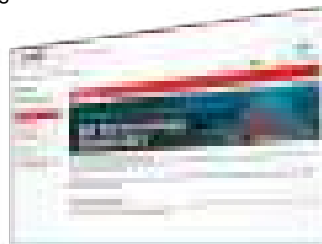


Global FA web site www.MitsubishiElectric.com/fa

Business support

◆ Dictionaries

These dictionaries contain references to more than 4000 words related to the world of FA. Use them to support and improve the communication between colleagues and local staff.



◆ Phrasebook

These phrasebooks can be used to support communication between local staff and Japanese engineers. The phrasebooks contain many everyday phrases as well as numerous examples related to the manufacturing environment.



◆ Glossaries

These glossaries contain more than 750 specialized technical terms associated with the use and operation of FA products helping to improve understanding and communication between businesses and local staff.



◆ On-site lexicon

These lexicon's are designed to support the on-site communication between Japanese engineers and local staff. For each word a relevant FA explanation and example sentence are provided.



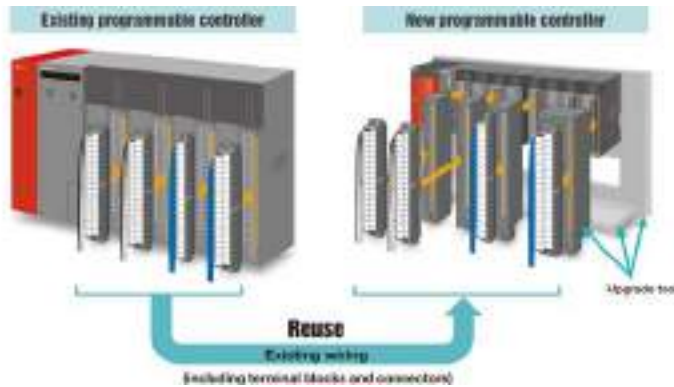
MITSUBISHI ELECTRIC ENGINEERING CO., LTD.

Mitsubishi Electric Engineering Co., Ltd. designs and sells peripheral components of Mitsubishi PLCs including PLC upgrade support equipment, wiring saving equipment and man-hour saving equipment.

PLC migration (upgrade) tools

Mitsubishi Electric Engineering Co., Ltd. offers migration (upgrade) tools for replacing the MELSEC-A series with the MELSEC-Q series and replacing the MELSEC-AnS series with the MELSEC-L/Q series.

The migration work time and wiring mistakes are considerably reduced by utilizing the existing wiring (including terminal blocks and connectors).



● Catalog



Control Field

FA merchandise (FA goods)

Wiring saving equipment and man-hour saving equipment support the wiring of the PLCs.

These equipment reduce man-hours for wiring inside and outside the panel and wiring mistakes, and realize safety backed up by high reliability.

● Catalog



Drive Field

Distribution Field

Reliable Support

Production discontinuance

For the acquisition of Upgrade Tool and FA merchandise (FA goods), please contact your local Mitsubishi Electric sales office or sales representative.

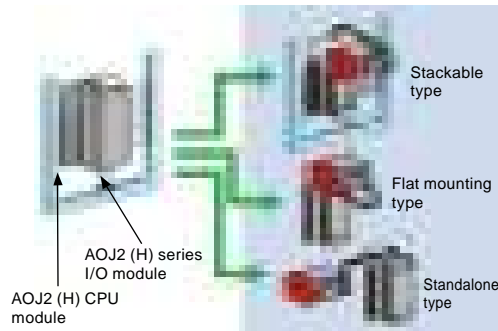
Mitsubishi Electric System & Service Co., Ltd.

AOJ2 migration tool

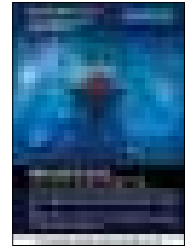
This migration tool is used to replace the MELSEC-AOJ2 with the Q series.
 It consists of the interface module (to which the wired terminal block of the existing I/O module can be directly mounted), Q series PLC mounting members and connection cables.
 Either of three types of installation methods can be selected in accordance with the installation space.
 This migration tool utilizes the existing wiring to reduce wiring mistakes and work time.

Before replacement

After replacement



● Catalog



AC servo migration tool

This migration tool is used to replace the MR-J2Super series with the MR-J4 series.
 Because the existing mounting dimensions and cables are compatible, replacement can be performed in a short time.
 This migration tool is available also for step-by step migration consisting of primary replacement (in which only the amplifier is replaced) and secondary replacement (in which the motor is replaced). It utilizes your assets effectively.

Applicable models

- MR-J2S-[]A (0.1 to 22 kW)
- MR-J2S-[]B (0.1 to 22 kW)









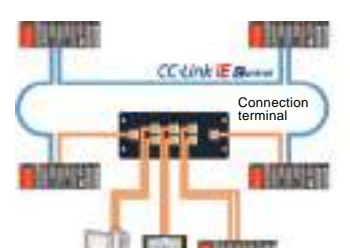
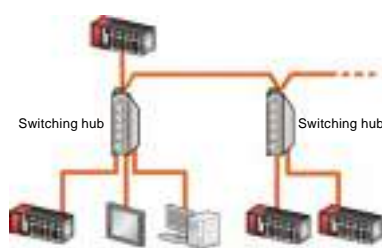
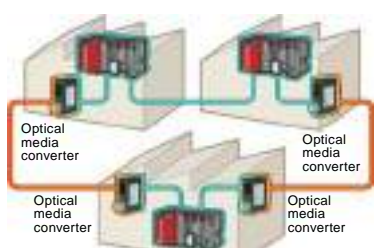
● Catalog



FA integrated network cables

Mitsubishi Electric System & Service Co., Ltd. offers various network cables and wiring equipment for the controller network "CC-Link IE Control", field network "CC-Link IE Field" and motion network "SSCNET III/H" to correspond with various applications.

					
CC-Link IE Control	CC-Link IE Control	CC-Link IE Field	CC-Link IE Field	SSCNET III/H	CC-Link IE Control
Optical fiber cable for controller network "CC-Link IE Control"	Connection terminal for controller network "CC-Link IE Control"	Ethernet cable for field network "CC-Link IE Field"	Industrial switching hub for field network "CC-Link IE Field"	Optical fiber cable for motion network "SSCNET III/H"	Optical media converter for controller network "CC-Link IE Control"

		
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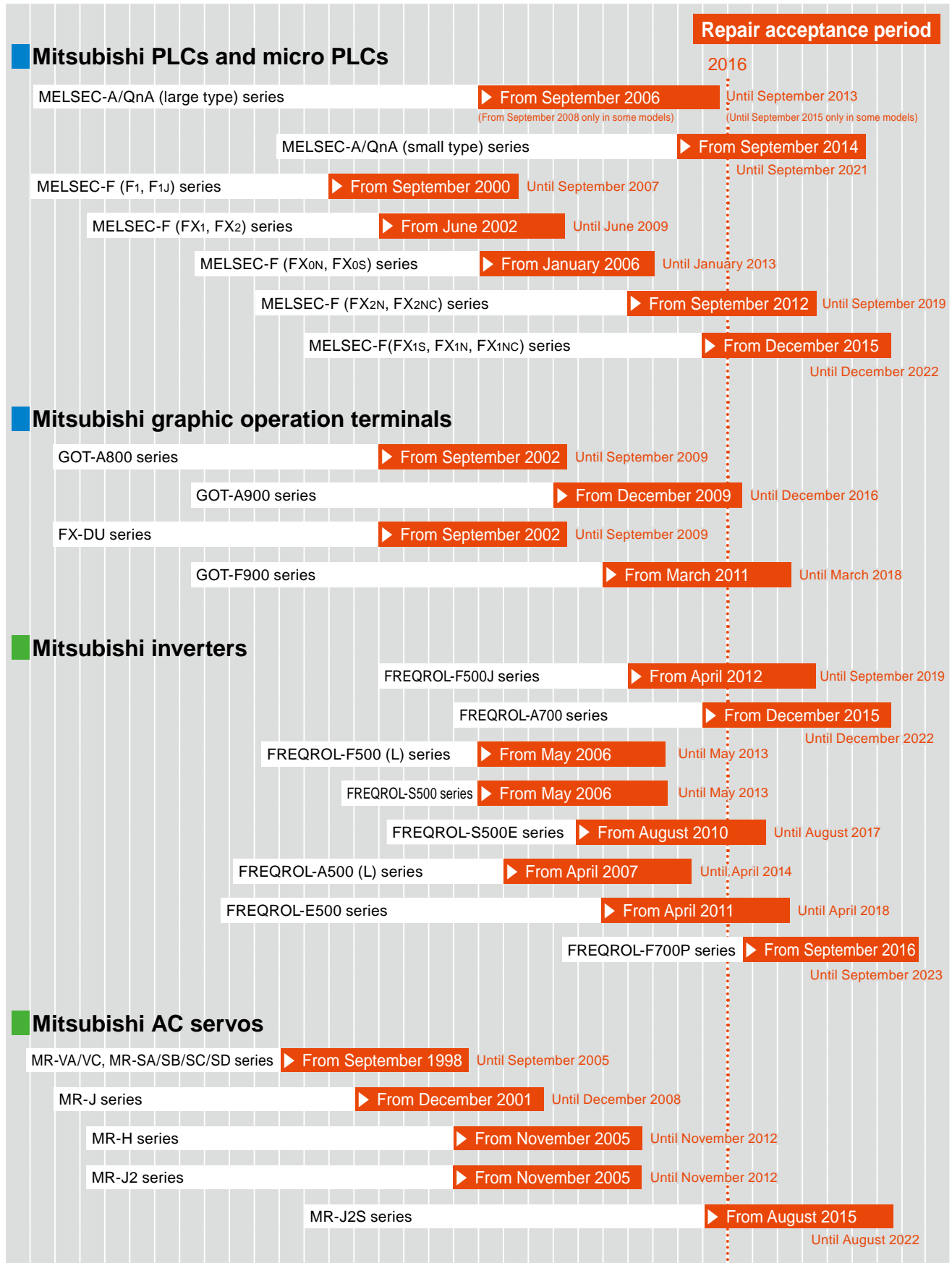
Mitsubishi AC servo cable for MELSERVO-J4/J3/JN series

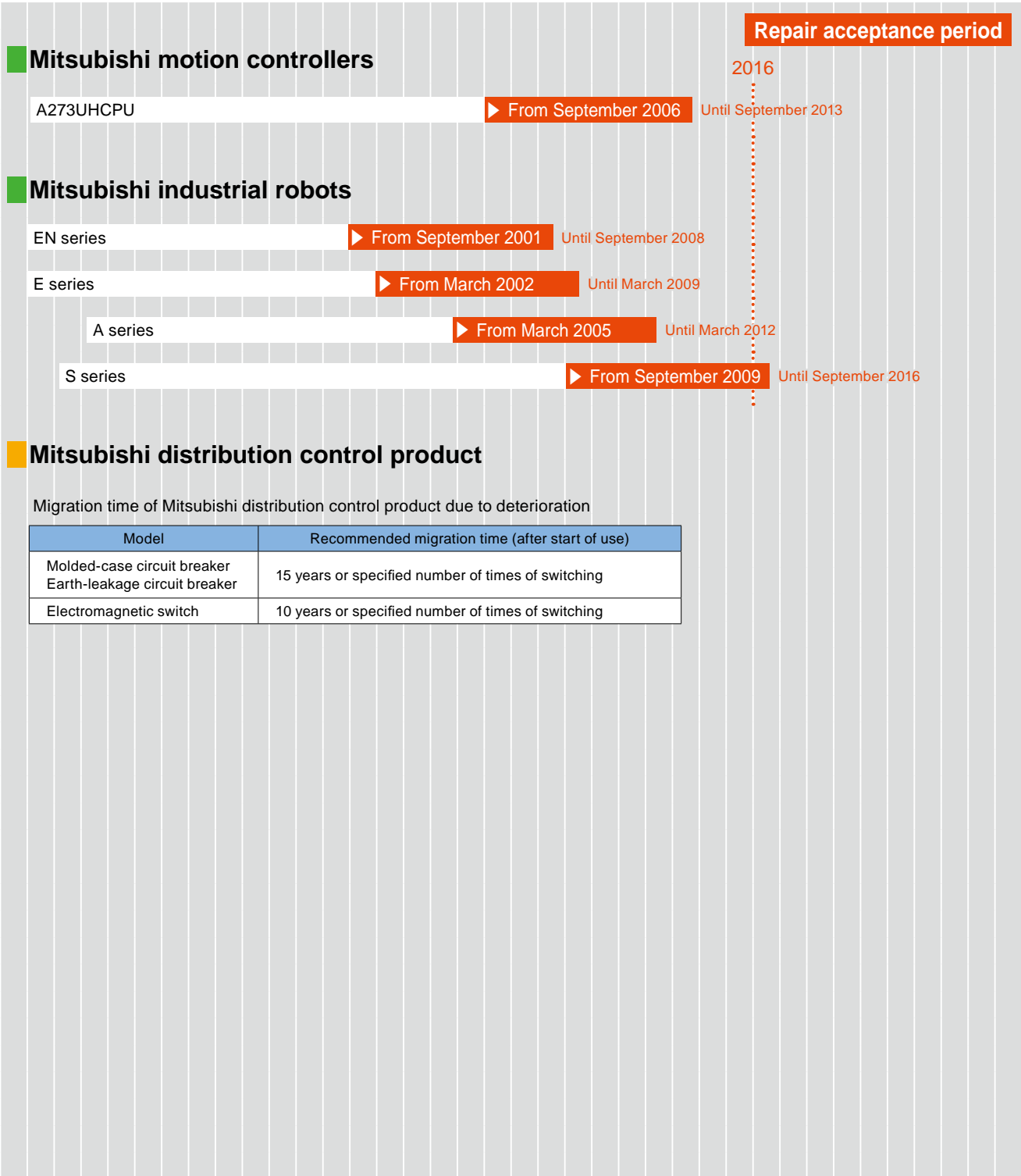
- This cable enables relay connection, and is available in a case in which the AC servo should be separated from the machine side during transportation or installation, a case in which a highly flexible part should be adopted partially in the AC servo, and other cases.
- Mitsubishi Electric System & Service Co., Ltd. produces cables (increment:1 m) for Mitsubishi MR-J4/J3/JN series servo encoders, power supplies and electromagnetic brakes.

* Mitsubishi Electric System & Service Co., Ltd. produces cables other than cables of standard length sold by Mitsubishi Electric Corporation.



Below is the repair acceptance period of major models and series in which production of the main unit are already discontinued. Production may be discontinued even in other models and series not shown below, and production may be discontinued before the date shown below or may be continued in some models and series shown below. Refer to the Mitsubishi Electric's website or contact Mitsubishi Electric sales representatives for further information.





⚠ Safety precautions

- To properly use the products described in this document, make sure to read the relevant manuals before use.
- These products have been manufactured as general-purpose products for general industrial purposes, and have not been designed or manufactured to be incorporated in equipment or system used in situations that can affect or endanger human life.
- When considering using these products for special purposes such as equipment or system for nuclear power, electric power, aerospace, medical care or riding mobile object, contact the contact point in charge of sales in Mitsubishi Electric.
- These products have been manufactured under strict quality control. However, it is strongly advised to install a backup or failsafe function in the system when using these products in facilities where a failure of these products may cause a serious accident or loss.

Trademarks and registered trademarks

- MODBUS is a registered trademark of Schneider Electric SA.
- Ethernet is a trademark of Xerox Corporation.
- All other company names and product names described in this document are trademarks or registered trademarks of their representative companies.

**Production/
Development**

We Strive to Respond to Customers Needs in All Aspects of Our Production and Development Processes and Quality

Production We manufacture products that satisfy our customers needs, with leading-edge production lines and technologies.

In cooperation with our network of factories and overseas production bases, our mother factory in Nagoya, Japan, has developed systems and solutions, such as e-F@ctory, that are designed to optimize and strengthen manufacturing and production processes. This is demonstrated through the total “visualization” of the factory operations from ensuring the highest level of productivity and machine optimization to energy management applied throughout the total plant operation.



Nagoya Works



Shinshiro Factory



Kani Factory

Nagoya Works (Nagoya, Aichi)

As the core factory of our FA business, Nagoya Works creates an extensive lineup and network of FA products. Its goal is to contribute to production throughout the world and become the No.1 FA supplier to our customers.



Fukuyama Works (Fukuyama, Hiroshima)

Fukuyama Works utilizes its world-class power distribution and control technology to manufacture protective, measurement and control equipment. It also produces a wide range of ecological and economical energy-saving products.



Nakatsugawa Works (Nakatsugawa, Gifu)

Nakatsugawa Works contributes to the future of lifestyles and the planet through environmentally conscious systems. It manufactures ventilators and industrial fans that create comfortable environments while saving energy.



Power Distribution Systems Center (Marugame, Kagawa)

The Power Distribution Systems Center specializes in vacuum circuit breakers and other electrical distribution equipment for factories, office buildings, public facilities, power plants, and railway substations, in addition to control and monitoring systems.



Mitsubishi Electric FA Industrial Products Corporation (Fukuoka, Fukuoka)

This site provides solutions to various needs in the area of geared motors, and hoists, which serve as driving sources for a broad range of equipment, from transport to food production.



Mitsubishi Electric India Pvt. Ltd.

We manufacture inverters, power distribution control devices, PLC and HMI, and we are building a manufacturing, sales, and service system that is responsive to the needs of the Indian market.



Mitsubishi Electric Automation (Thailand) Co., Ltd.

Founded as a production base for three-phase induction motors, but it now manufactures electric energy meter and die-cast parts, mainly for domestic use in Thailand.



Mitsubishi Electric Automation Manufacturing (Changshu) Co., Ltd.

Manufacturing servo, NC, and other drive control equipment. Production is local to meet the growing demand in China.



Mitsubishi Electric Low Voltage Equipmet (Xiamen) Co., Ltd.

Manufacturing low voltage power distribution and control equipment. The company is responding to the expansion of our customers' production facilities in China.



Mitsubishi Electric Dalian Industrial Products Co., Ltd.

Founded as a production base for breakers, this site also manufactures inverters and electrical discharge machines today. It intends to further upgrade its production processes as a strategic overseas production base.

Development We identify new customer needs promptly and accelerate our R&D cycle to respond to those needs.

Core Development Processes

To develop products in response to diversifying needs, two core development centers have been created integrating the related departments of FA and Industrial Automation Machinery. These state-of-the-art centers maximise the technology synergies to produce world-class products.



FA Development Center (within Nagoya Works)

The FA Development Center pursues solutions for our customers' diverse and advanced needs in the areas of control technology, networking, HMI, complex software, drives etc.

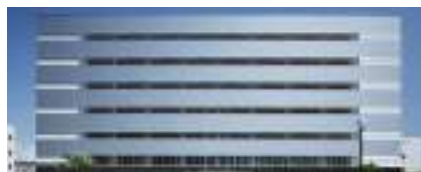


Industrial Automation Development Center (within Nagoya Works)

The state-of-the-art development environment is capable of responding to trends for more compact features, higher precision, and higher speeds. The design, processing technology and service domains have been brought together to strengthen Mitsubishi Electric's total development power.

Comprehensive strength

To promote the development of competitive products and create technologies for the future we foster world-leading R&D activities whilst utilizing our network of overseas and domestic research institutes.



Advanced Technology R&D Center (Amagasaki, Hyogo)

As an advanced technology base for all of Mitsubishi Electric's business areas, the R&D Center has many responsibilities: from the development of common infrastructure technologies and new products to the research and development of potential new businesses for the future.



Information and Technology R&D Center (Kamakura, Kanagawa)

The R&D Center plays an important role in creating new businesses and innovating existing ones through basic research and development in the areas of information, communications, and optical and electromagnetic technologies.

Development at the global level

We develop products that satisfy the needs of our overseas customers, propose new global-scale FA business plans, adopt cutting-edge technologies from overseas and promote other development activities, all from a global perspective.



European Development Center (Düsseldorf, Germany)

In addition to investigating and researching cutting-edge technologies, the European Development Center develops products for the European market, in the languages of the European countries, as well as working to obtain various EU standards and certifications.



North American Development Center (Chicago, Boston) USA

As a planning and development base for new products and new business creation in North America, the North American Development Center aims to incubate new FA businesses and investigate advanced technologies.



China Design (Dalian, China)

Based on close cooperation between sales departments and our mother factory, we are expanding our product lineup and developing new specifications for the Chinese market.



Indian Development Center (Pune, India)

The company develops for the Indian market. Also, as a development base for the global market, it partners with other development bases to develop common technologies for FA equipment.

Quality

In response to our customers' trust and confidence, we constantly review and reinforce our quality management system.



Anechoic room

Manufacturing servo, NC, and other drive control equipment. Production is local to meet the growing demand in China.



LSI evaluation facility

Manufacturing low voltage power distribution and control equipment. The company is responding to the expansion of our customers' production facilities in China.

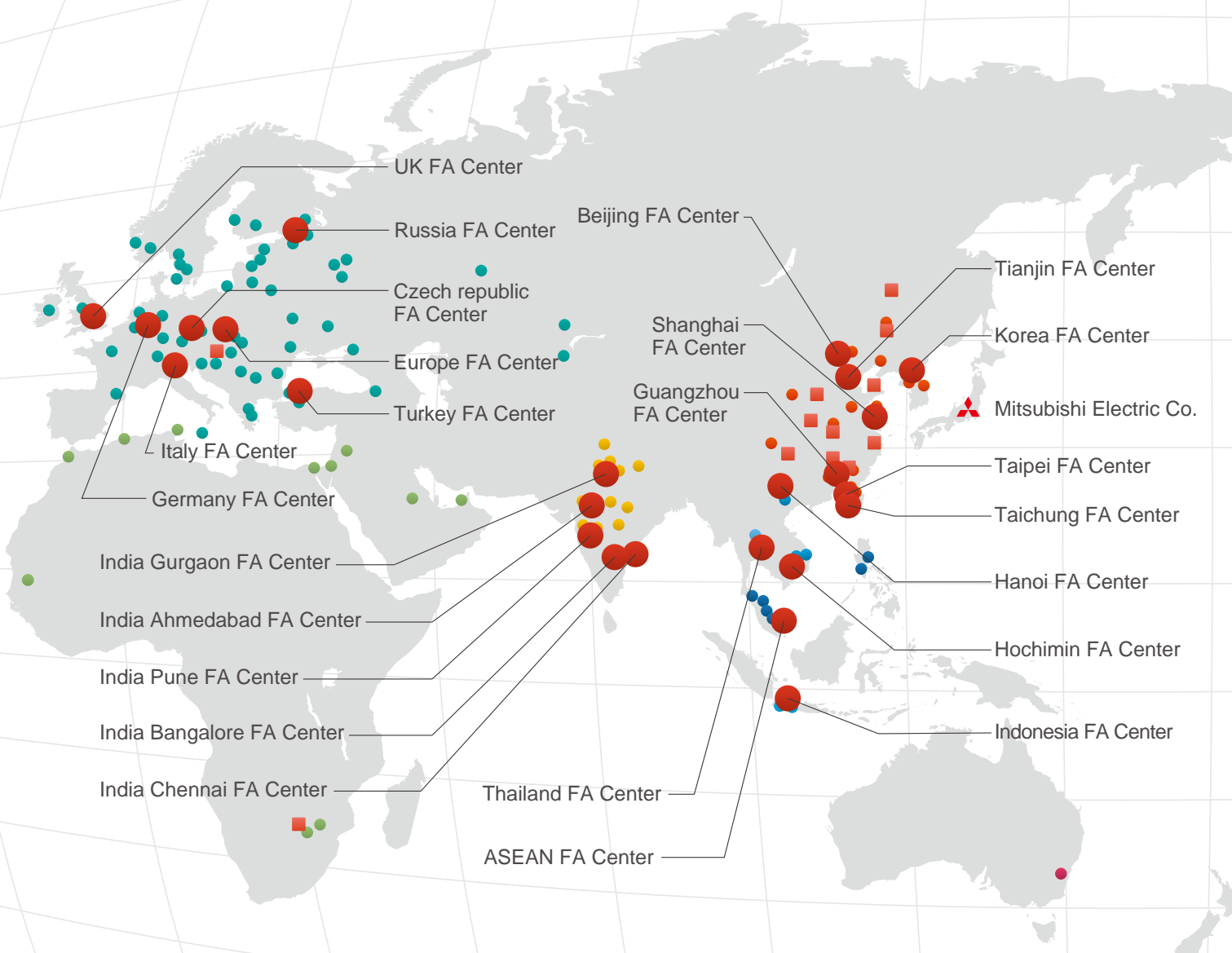


Inspecting machining equipment performance

We exhaustively inspect the drive control and machining performance of machining equipment, testing to ensure continuing precision machining after delivery.

GLOBAL NETWORK

**Our Global Network Delivers
Reliable Technologies and
Security All Over the World**



GLOBALIN

- Mitsubishi Electric FA Centers
- FA Center Satellite
- Offices

North America FA Center

Mexico FA Center

Brazil FA Center

Brazil Votorantim FA Center

Index

- China Mainland** — B-29
- Korea** — B-31
- Taiwan** — B-32
- ASEAN** — B-33
- Indonesia** — B-34
- Vietnam** — B-35
- Thailand/India** — B-36
- Oceania** — B-37
- Americas/Mexico** — B-38
- Brazil** — B-39
- Europe** — B-40
- Turkey** — B-43
- Middle East/Africa** — B-44

ETWORK

China Main Land

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 HP <http://sahabatindo.com/>
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Distributors

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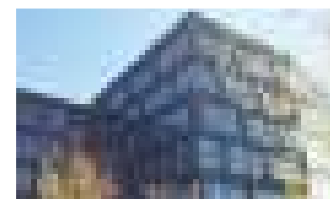
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Warranty

Warranty Information

1. Gratis Warranty Term and Gratis Warranty Range

If any faults or defects (hereinafter "Failure") found to be the responsibility of Mitsubishi occur during use of the product within the gratis warranty term, the product shall be repaired at no cost via the sales representative. However, if repairs are required onsite, actual expenses to send an engineer will be borne by the customer. Mitsubishi shall not be held responsible for any re-commissioning, maintenance, or testing on-site that involves replacement of the failed module.

[Gratis Warranty Term]

The gratis warranty term of the product shall be between 12 months¹ and 36 months² after the date of purchase or delivery to a designated place.

Note that the product shall be distributed for a maximum period of 6 months after shipment, and the longest gratis warranty term after manufacturing shall be between 18 months¹ and 42 months². In addition, the gratis warranty term of the product repaired shall not exceed the gratis warranty term before repairs.

[Gratis Warranty Range]

(1) The customer shall be responsible for the primary failure diagnosis unless otherwise specified.

If requested by the customer, Mitsubishi Electric Corporation or its representative firm may carry out the primary failure diagnosis at the customer's expense.

The primary failure diagnosis will, however, be free of charge should the cause of failure be attributable to Mitsubishi Electric Corporation.

(2) The warranty shall apply only to the product used under normal situations such as when the usage state, method and/or environment conform to the conditions / precautions stated in the instruction manual, the user's manual, the caution labels on the product, etc. The range shall be limited to normal use within the usage state, usage methods, usage environment, etc. which follow the conditions, precautions, etc. given in the instruction manual, user's manual, caution labels on the product, etc.

(3) Even within the gratis warranty term, repairs shall be charged in the following cases.

- ① Any failure occurring from inappropriate storage or handling of the product, carelessness or negligence of the customer. Failure caused by the customer's hardware or software design.
- ② Any failure caused by unapproved modifications, etc., to the product by the customer.
- ③ When the Mitsubishi product is assembled into the customer's device, any failure that could have been avoided if functions or structures, judged as necessary in the legal safety measures the customer's device is subject to or judged as necessary by industry standards, had been provided.
- ④ Any failure that could have been avoided if consumable parts designated in the user's manual etc. had been correctly serviced or replaced.
- ⑤ Replacement of consumable parts.
- ⑥ Any failure caused by external irresistible forces such as fires or abnormal voltages, and any failure caused by force majeure such as earthquakes, lightning, wind and water damage.
- ⑦ Any failure caused by reasons unpredictable by scientific technology standards at time of shipment from Mitsubishi.
- ⑧ Any other failure found not to be the responsibility of Mitsubishi or admitted not to be so by the customer.

2. Onerous repair term after discontinuation of production

(1) Mitsubishi shall accept onerous product repairs for 7 years (4 years for the safety controller) after production of the product is discontinued.

Discontinuation of production shall be notified with Mitsubishi Technical Bulletins, etc.

(2) Product supply (including repair parts) is not available after production is discontinued.

3. Overseas service

Overseas, repairs shall be accepted by Mitsubishi's local overseas FA Center. Note that the repair conditions at each FA Center may differ.

4. Exclusion of loss in opportunity and secondary loss from warranty liability

Regardless of the gratis warranty term, Mitsubishi shall not be liable for compensation to damages caused by any cause found not to be the responsibility of Mitsubishi, loss in opportunity, lost profits incurred to the customer by failures of Mitsubishi products, special damages and secondary damages, whether foreseeable or not, compensation for accidents, and compensation for damages to products other than Mitsubishi products, replacement by the customer, maintenance of on-site equipment, start-up test run and other tasks.

5. Changes in product specifications

The specifications given in the catalogs, manuals or technical documents are subject to change without prior notice.

6. Product application

- (1) In using the Mitsubishi product, the usage conditions shall be that the application will not lead to a major accident even if any problem or fault should occur in the product, and that backup and fail-safe functions are systematically provided outside of the device for any problem or fault.
- (2) The Mitsubishi product has been designed and manufactured for applications in general industries, etc.
Thus, the product should not be used in applications that could affect the public, such as use in nuclear power plants or other power plants operated by respective power companies, and that require a special quality assurance system, such as use for railway companies or public sectors.
Also, the product should not be used in applications that could have significant impact on human life or property, such as use in aircraft, medical or railway services, incineration / fuel devices, manned transportation equipment, equipment for recreation / amusement, or safety devices.
However, Mitsubishi Electric Corporation may consider the possibility of using the product even in these fore-mentioned applications, if the customer acknowledges that the product has only limited application and that any special quality is not required.
- (3) Depending on the product, because there shall be other terms defined that are not included in this context, please confirm when you place an order.

*1: The products (Safety controller / Inverter / Low-voltage circuit breaker / Magnetic contactors and starters / Power management measuring devices) whose gratis warranty term is either 12 months after delivery or 18 months after manufacturing.

*2: The products (Programmable controller (including C language controller) / Servo system controller / GOT / Energy-saving support device) whose gratis warranty term is either 36 months after delivery or 42 months after manufacturing.

*3: The gratis warranty term of the industrial robot shall be for either 12 months after delivery or 2000 operating hours (possible operating hours of 8 hours per day × 250 days).

*4: Oil mist environment for industrial robots

As a result of tests conducted using cutting oils shown in the table on the right, Mitsubishi confirms that the product satisfies IP (Ingress Protection) specifications. Using the product in an environment where any cutting oils other than those shown in the table on the right may cause the product to decrease in IP performance. Also, the warranty does not apply if a failure occurs in the product used in an atmosphere where any cutting oil other than those shown in the table on the right is used or where a robot is directly exposed to water, oil

or dust beyond IP specs limits. If the customer wants to use a type of cutting oil, other than the applicable oils confirmed, Mitsubishi is ready to conduct a verification test of the oil on the behalf of the customer. For the latest information about any types of cutting oils, other than those listed in the table on the right, which have been confirmed as applicable, visit the website "Mitsubishi FA Site" (URL<<http://www.mitsubishielectric.co.jp/fa>>).

*5: Usage environment for Magnetic contactors and starters

Do not use the product in the following locations, as it may cause the product to malfunction or shorten its operation life.

- ① Where the ambient temperature exceeds the range of -5 to +40°C.
- ② Where the average daily temperature exceeds 35°C.
- ③ Where the altitude exceeds 1000m.
- ④ Where abnormal vibration or shock happens.
- ⑤ Where there is the excessive amount of dust.
- ⑥ Where hazardous gases such as explosive, corrosive and flammable gases are generated.
- ⑦ Where there is the excessive amount of moisture or oil mist.
- ⑧ Where there is too much snow and ice.
- ⑨ Where it is always wet.
- ⑩ Where it is directly exposed to sea breeze.

Cutting oils for oil mist environmental test

No.	Oil name	Manufacturer	Property	Operating condition
1	Castrol hysol X	Castrol	Water soluble	20 fold dilution
2	Castrol Syntilo 9954	Castrol	Water soluble	20 fold dilution
3	Yushiro oil CE	Yushiro Chemical Industry	Water-insoluble	—
4	Yushiroken E10	Yushiro Chemical Industry	Water soluble	20 fold dilution
5	Yushiroken synthetic 770TG	Yushiro Chemical Industry	Water soluble	20 fold dilution
6	Yushiroken FX90	Yushiro Chemical Industry	Water soluble	20 fold dilution
7	SUNCUT ES-50N	Nippon Grease	Water-insoluble	—
8	Searching cut SG555	Kyowa Oil Lubricants	Water-insoluble	—
9	Emul cut FA-800	Kyodo Yushi	Water soluble	—

Index

Model	Product name	Page
1		
1E-GR35S	Hand output cable	657
1E-ST040□C	Hand (curl) tube	657
1E-ST0408C-300	Hand (curl) tube	657
1E-VD0□	Solenoid valve set	657
1E-VD0□E	Solenoid valve set	657
1F-□□LUCBL-02	Machine cable, for extension/flexible CR-751	657
1F-□□LUCBL-11	Machine cable, for extension/flexible CR-751	657
1F-□□UCBL-02	Machine cable, for extension/fixed CR-751	657
1F-□□UCBL-11	Machine cable, for extension/fixed CR-751	657
1F-02UCBL-02	Machine cable (replacement for shorter 2m type)	657
1F-DH-□□	Stopper for changing the J1-axis operating range	657
1F-DH-05J1	Stopper for changing the J1-axis operating range	657
1F-GR35S-02	Hand output cable	657
1F-GR60S-01	Hand output cable	657
1F-HA01S-01	External wiring set 1 for the base	657
1F-HA02S-01	External wiring set 2 for the base	657
1F-HB01S-01	External wiring set 1 for the forearm	657
1F-HB02S-01	External wiring set 2 for the forearm	657
1F-HC35C-01	Hand input cable	657
1F-HC35C-02	Hand input cable	657
1F-HC35S-02	Hand input cable	657
1F-HS304S-01	Internal wiring and piping set for hand	657
1F-HS408S-01	Internal wiring and piping set for hand	657
1F-HS408S-02	Internal wiring and piping set for hand	657
1F-HS604S-01	Internal wiring and piping set for hand	657
1F-HS604S-02	Internal wiring and piping set for hand	657
1F-UT-BOX	External user wiring and piping box	657
1F-UT-BOX-01	External user wiring and piping box	657
1F-VD0□-□□	Solenoid valve set	657
1F-VD0□E-□□	Solenoid valve set	657
1N-ST060□C	Hand (curl) tube	657
1N-ST0608C-01	Hand (curl) tube	657
1S-□□CBL-01	Machine cable, for extension/fixed CR-750	657
1S-□□CBL-03	Machine cable, for extension/fixed CR-750	657
1S-□□CBL-11	Machine cable, for extension/fixed CR-750	657
1S-□□LCBL-01	Machine cable, for extension/flexible CR-750	657
1S-□□LCBL-03	Machine cable, for extension/flexible CR-750	657

Model	Product name	Page
1S-□□LCBL-11	Machine cable, for extension/flexible CR-750	657
1S-02UCBL-01	Machine cable (replacement for shorter 2m type)	657
1S-DH-01	Stopper for changing the J1-axis operating range	657
1S-DH-05J1	Stopper for changing the J1-axis operating range	657
1S-DH-05J2	Stopper for changing the J2-axis operating range	657
1S-DH-11J1	Stopper for changing the J1-axis operating range	657
1S-DH-11J2	Stopper for changing the J2-axis operating range	657
1S-DH-11J3	Stopper for changing the J3-axis operating range	657
1S-GR35S-02	Hand output cable	657
1S-HC00S-01	Hand input cable	657
1S-HC30C-11	Hand input cable	657
1S-ST0304S	Hand tube	657
1S-VD0□-□□	Solenoid valve set	657
1S-VD0□E-□□	Solenoid valve set	657
2		
2A-CBL	Remote Parallel I/O cable (5m, 15m)	658
2A-RZ361	On-board Parallel I/O interface (Sink type)	658
2A-RZ371	On-board Parallel I/O interface (Source type)	658
2D-CBL	Remote Parallel I/O cable (5m, 15m)	658
2D-TZ368	On-board Parallel I/O interface (Installed internally)	658
2D-TZ378	On-board Parallel I/O interface (Installed internally)	658
2D-TZ454	Extension memory	658
2D-TZ535	Network base card	658
2D-TZ576	CC-Link interface	658
2F-32CON03M	Conversion cable for the teaching box	658
2F-CNUSR01M	Terminal block replacement tool for the user wiring	658
2F-YZ581	Encoder distribution unit	658
3		
3D-11C-WINE	MELSOFT iQ Works	236
3D-11C-WINJ	Personal computer support software	658
3D-12C-WINE	MELSOFT iQ Works	236
3D-12C-WINJ	Personal computer support software-mini	658
3F-21D-WINJ	Simulator (MELFA-Works)	658
4		
4F-3DVS2-PKG1	MELFA- 3D Vision	658
4F-FS001-W200	Force sensor set	658
A		
A1SADP-Q-SET1	AnS-Q module conversion adapter	239

Model	Product name	Page
A1SADP-Q-SET2	AnS-Q module conversion adapter	239
A1SJ71AP23Q	MELSECNET(II) local station data link module	239
A1SJ71AT23BQ	MELSECNET/B local station data link module	239
A6CAP-WP2	Network Related Products Protective cap for unused connector	235
A6CON1	MELSEC-Q Series Connector	216, 235
A6CON1E	MELSEC-Q Series Connector	216, 235
A6CON2	MELSEC-Q Series Connector	216, 235
A6CON2E	MELSEC-Q Series Connector	216, 235
A6CON3	MELSEC-Q Series Connector	216, 235
A6CON3E	MELSEC-Q Series Connector	216, 235
A6CON4	MELSEC-Q Series Connector	216, 235
A6CON-L5P (35505-6000-B0M GF)	Network Related Products One-touch connector plug for communication (10pcs)	235
A6CON-LJ5P (35720-L200-B00 AK)	Network Related Products Online connector	235
A6CON-P214 (33104-6000FL)	Network Related Products One-touch connector plug (20pcs)	235
A6CON-P220 (33104-6100FL)	Network Related Products One-touch connector plug (20pcs)	235
A6CON-P514 (33104-6200FL)	Network Related Products One-touch connector plug (20pcs)	235
A6CON-P520 (33104-6300FL)	Network Related Products One-touch connector plug (20pcs)	235
A6CON-PW5P (35505-6080-A00 GF)	Network Related Products One-touch connector plug for power supply and FG (10pcs)	235
A6CON-PW5P-SOD (35505-6180-A00 GF)	Network Related Products One-touch connector plug for power supply and FG (10pcs)	235
A6CON-PWJ5P (35720-L200-A00 AK)	Network Related Products Online connector	235
A6CON-TR11N	Network Related Products One-touch connector plug with terminating resistor (1pc)	235
A6CVR-16	Network Related Products Protective cover for remote I/O module	235
A6CVR-32	Network Related Products Protective cover for remote I/O module	235
A6CVR-8	Network Related Products Protective cover for remote I/O module	235
A6CVR-VCE16	Network Related Products Protective cover for remote I/O module	235
A6CVR-VCE8	Network Related Products Protective cover for remote I/O module	235
A6GA-CCMFP1NN300F	Network Related Products CC-Link Related Products	232
A6GA-CCMFP1NN60F	Network Related Products CC-Link Related Products	232
A6GA-CCMFP2ANN 300F	Network Related Products CC-Link Related Products	232
A6GA-CCMFP2ANN 60F	Network Related Products CC-Link Related Products	232
A6GA-CCMFP2NN 300F	Network Related Products CC-Link Related Products	232
A6GA-CCMFP2NN 60F	Network Related Products CC-Link Related Products	232
A6GA-CCMFP3NN 300F	Network Related Products CC-Link Related Products	232
A6GA-CCMFP3NN 60F	Network Related Products CC-Link Related Products	232
A6TBX36-E	MELSEC-Q Series Connector/terminal block conversion module	217, 235
A6TBX54-E	MELSEC-Q Series Connector/terminal block conversion module	217, 235
A6TBX70	MELSEC-Q Series Connector/terminal block conversion module	217, 235
A6TBX70-E	MELSEC-Q Series Connector/terminal block conversion module	217, 235

Model	Product name	Page
A6TBXY36	MELSEC-Q Series Connector/terminal block conversion module	217, 235
A6TBXY54	MELSEC-Q Series Connector/terminal block conversion module	217, 235
A6TBY36-E	MELSEC-Q Series Connector/terminal block conversion module	217, 235
A6TBY54-E	MELSEC-Q Series Connector/terminal block conversion module	217, 235
A6TE2-16SRN	MELSEC-Q Series Relay terminal module	217, 235
A7GT-CNB	Bus connector conversion box	629
A9GT-QCNB	Bus extension connector box	624, 629
AC05TB	MELSEC-Q Series Connector/terminal block conversion module	217, 235
AC05TB-E	MELSEC-Q Series Connector/terminal block conversion module	217, 235
AC06TE	MELSEC-Q Series Relay terminal module	217, 235
AC100TB	MELSEC-Q Series Connector/terminal block conversion module	217, 235
AC100TE	MELSEC-Q Series Relay terminal module	217, 235
AC10TB	MELSEC-Q Series Connector/terminal block conversion module	217, 235
AC10TB-E	MELSEC-Q Series Connector/terminal block conversion module	217, 235
AC10TE	MELSEC-Q Series Relay terminal module	217, 235
AC20TB	MELSEC-Q Series Connector/terminal block conversion module	217, 235
AC20TB-E	MELSEC-Q Series Connector/terminal block conversion module	217, 235
AC30TB	MELSEC-Q Series Connector/terminal block conversion module	217, 235
AC30TB-E	MELSEC-Q Series Connector/terminal block conversion module	217, 235
AC30TE	MELSEC-Q Series Relay terminal module	217, 235
AC50TB	MELSEC-Q Series Connector/terminal block conversion module	217, 235
AC50TB-E	MELSEC-Q Series Connector/terminal block conversion module	217, 235
AC50TE	MELSEC-Q Series Relay terminal module	217, 235
AC80TB	MELSEC-Q Series Connector/terminal block conversion module	217, 235
AE1000-SW	Low Voltage Air Circuit Breakers (AE-SW Series)	710
AE1250-SW	Low Voltage Air Circuit Breakers (AE-SW Series)	710
AE1600-SW	Low Voltage Air Circuit Breakers (AE-SW Series)	710
AE2000-SW	Low Voltage Air Circuit Breakers (AE-SW Series)	710
AE2000-SWA	Low Voltage Air Circuit Breakers (AE-SW Series)	710
AE2500-SW	Low Voltage Air Circuit Breakers (AE-SW Series)	710
AE3200-SW	Low Voltage Air Circuit Breakers (AE-SW Series)	710
AE4000-SW	Low Voltage Air Circuit Breakers (AE-SW Series)	711
AE4000-SWA	Low Voltage Air Circuit Breakers (AE-SW Series)	710
AE5000-SW	Low Voltage Air Circuit Breakers (AE-SW Series)	711
AE6300-SW	Low Voltage Air Circuit Breakers (AE-SW Series)	711
AE630-SW	Low Voltage Air Circuit Breakers (AE-SW Series)	710
AJ65ABTP3-16D	Network Related Products Remote I/O Module Input modules with diagnostic function	171, 231
AJ65ABTP3-16DE	Network Related Products Remote I/O Module Input modules with diagnostic function	171, 231

Index

Model	Product name	Page
AJ65BT-64AD	Network Related Products Analog Module Voltage/current input	175, 232
AJ65BT-64DAI	Network Related Products Analog Module Current output	175, 232
AJ65BT-64DAV	Network Related Products Analog Module Voltage output	175, 232
AJ65BT-64RD3	Network Related Products Analog Module Temperature input module	175, 232
AJ65BT-64RD4	Network Related Products Analog Module Temperature input module	175, 232
AJ65BT-68TD	Network Related Products Analog Module Temperature input module	175, 232
AJ65BTB1-16D	Network Related Products Remote I/O Module Input module	170, 231
AJ65BTB1-16DT	Network Related Products Remote I/O Module I/O composite module	170, 231
AJ65BTB1-16T	Network Related Products Remote I/O Module Output module	170, 231
AJ65BTB2-16D	Network Related Products Remote I/O Module Input module	170, 231
AJ65BTB2-16DR	Network Related Products Remote I/O Module I/O composite module	170, 231
AJ65BTB2-16DT	Network Related Products Remote I/O Module I/O composite module	170, 231
AJ65BTB2-16R	Network Related Products Remote I/O Module Output module	170, 231
AJ65BTB2-16T	Network Related Products Remote I/O Module Output module	170, 231
AJ65BTC1-32D	Network Related Products Remote I/O Module Input module	174, 231
AJ65BTC1-32T	Network Related Products Remote I/O Module Output module	174, 231
AJ65BT-D62	Network Related Products High-Speed Counter Module	176, 232
AJ65BT-D62D	Network Related Products High-Speed Counter Module	176, 232
AJ65BT-D62D-S1	Network Related Products High-Speed Counter Module	176, 232
AJ65BT-D75P2-S3	Network Related Products Positioning Module	176, 232
AJ65BT-R2N	Network Related Products RS-232 Interface Module	176, 232
AJ65BT-RP1-10A	Network Related Products Repeater Module	176, 232
AJ65BT-RP1-10B	Network Related Products Repeater Module	176, 232
AJ65BTS-RPH	Network Related Products Repeater Module	176, 232
AJ65DBTB1-32D	Network Related Products Remote I/O Module Input module	170, 231
AJ65DBTB1-32DR	Network Related Products Remote I/O Module I/O composite module	170, 231
AJ65DBTB1-32DT1	Network Related Products Remote I/O Module I/O composite module	170, 231
AJ65DBTB1-32R	Network Related Products Remote I/O Module Output module	170, 231
AJ65DBTB1-32T1	Network Related Products Remote I/O Module Output module	170, 231
AJ65FBTA2-16T	Network Related Products Remote I/O Module Output module	174, 232
AJ65FBTA2-16TE	Network Related Products Remote I/O Module Output module	174, 232
AJ65FBTA4-16D	Network Related Products Remote I/O Module Input module	174, 232
AJ65FBTA4-16DE	Network Related Products Remote I/O Module Input module	174, 232
AJ65FBTA42-16DT	Network Related Products Remote I/O Module I/O composite module	174, 232
AJ65FBTA42-16DTE	Network Related Products Remote I/O Module I/O composite module	174, 232
AJ65FBTA-RPH	Network Related Products Repeater Module	176, 232
AJ65MBTL1N-16D	Network Related Products CC-Link Related Products	232
AJ65MBTL1N-16DT	Network Related Products CC-Link Related Products	232

Model	Product name	Page
AJ65MBTL1N-16T	Network Related Products CC-Link Related Products	232
AJ65MBTL1N-32D	Network Related Products CC-Link Related Products	232
AJ65MBTL1N-32T	Network Related Products CC-Link Related Products	232
AJ65SBT2B-64AD	Network Related Products Analog Module Voltage/current input	175, 232
AJ65SBT2B-64DA	Network Related Products Analog Module Voltage/current output	175, 232
AJ65SBT2B-64RD3	Network Related Products Analog Module Temperature input module	175, 232
AJ65SBT2B-64TD	Network Related Products Analog Module Temperature input module	175, 232
AJ65SBT-62DA	Network Related Products Analog Module Voltage/current output	175, 232
AJ65SBT-64AD	Network Related Products Analog Module Voltage/current input	175, 232
AJ65SBTB1-16D	Network Related Products Remote I/O Module Input module	168, 230
AJ65SBTB1-16D1	Network Related Products Remote I/O Module Input module	168, 230
AJ65SBTB1-16DT	Network Related Products Remote I/O Module I/O composite module	168, 230
AJ65SBTB1-16DT1	Network Related Products Remote I/O Module I/O composite module	169, 230
AJ65SBTB1-16DT2	Network Related Products Remote I/O Module I/O composite module	169, 230
AJ65SBTB1-16DT3	Network Related Products Remote I/O Module I/O composite module	169, 230
AJ65SBTB1-16T	Network Related Products Remote I/O Module Output module	168, 230
AJ65SBTB1-16T1	Network Related Products Remote I/O Module Output module	168, 230
AJ65SBTB1-16TE	Network Related Products Remote I/O Module Output module	168, 230
AJ65SBTB1-32D	Network Related Products Remote I/O Module Input module	168, 230
AJ65SBTB1-32D1	Network Related Products Remote I/O Module Input module	168, 230
AJ65SBTB1-32D5	Network Related Products Remote I/O Module Input module	168, 230
AJ65SBTB1-32DT	Network Related Products Remote I/O Module I/O composite module	169, 230
AJ65SBTB1-32DT1	Network Related Products Remote I/O Module I/O composite module	169, 230
AJ65SBTB1-32DT2	Network Related Products Remote I/O Module I/O composite module	169, 230
AJ65SBTB1-32DT3	Network Related Products Remote I/O Module I/O composite module	169, 230
AJ65SBTB1-32DTE1	Network Related Products Remote I/O Module I/O composite module	169, 230
AJ65SBTB1-32KD	Network Related Products Remote I/O Module Input module	168, 230
AJ65SBTB1-32KDT2	Network Related Products Remote I/O Module I/O composite module	169, 230
AJ65SBTB1-32KDT8	Network Related Products Remote I/O Module I/O composite module	169, 230
AJ65SBTB1-32T	Network Related Products Remote I/O Module Output module	168, 230
AJ65SBTB1-32T1	Network Related Products Remote I/O Module Output module	168, 230
AJ65SBTB1-32TE1	Network Related Products Remote I/O Module Output module	168, 230
AJ65SBTB1-8D	Network Related Products Remote I/O Module Input module	168, 230
AJ65SBTB1-8T	Network Related Products Remote I/O Module Output module	168, 230
AJ65SBTB1-8T1	Network Related Products Remote I/O Module Output module	168, 230
AJ65SBTB1-8TE	Network Related Products Remote I/O Module Output module	168, 230
AJ65SBTB1B-16TE1	Network Related Products Remote I/O Module Output module	168, 230
AJ65SBTB2-16T	Network Related Products Remote I/O Module Output module	168, 230

Model	Product name	Page
AJ65SBTB2-16T1	Network Related Products Remote I/O Module Output module	168, 230
AJ65SBTB2-8T	Network Related Products Remote I/O Module Output module	168, 230
AJ65SBTB2-8T1	Network Related Products Remote I/O Module Output module	168, 230
AJ65SBTB2N-16A	Network Related Products Remote I/O Module Input module	168, 230
AJ65SBTB2N-16R	Network Related Products Remote I/O Module Output module	168, 230
AJ65SBTB2N-16S	Network Related Products Remote I/O Module Output module	168, 230
AJ65SBTB2N-8A	Network Related Products Remote I/O Module Input module	168, 230
AJ65SBTB2N-8R	Network Related Products Remote I/O Module Output module	168, 230
AJ65SBTB2N-8S	Network Related Products Remote I/O Module Output module	168, 230
AJ65SBTB3-16D	Network Related Products Remote I/O Module Input module	168, 230
AJ65SBTB3-16D5	Network Related Products Remote I/O Module Input module	168, 230
AJ65SBTB3-16KD	Network Related Products Remote I/O Module Input module	168, 230
AJ65SBTB32-16DR	Network Related Products Remote I/O Module I/O composite module	169, 230
AJ65SBTB32-16DT	Network Related Products Remote I/O Module I/O composite module	169, 230
AJ65SBTB32-16DT2	Network Related Products Remote I/O Module I/O composite module	169, 230
AJ65SBTB32-16KDR	Network Related Products Remote I/O Module I/O composite module	169, 230
AJ65SBTB32-16KDT2	Network Related Products Remote I/O Module I/O composite module	169, 230
AJ65SBTB32-16KDT8	Network Related Products Remote I/O Module I/O composite module	169, 230
AJ65SBTB32-8DT	Network Related Products Remote I/O Module I/O composite module	169, 230
AJ65SBTB32-8DT2	Network Related Products Remote I/O Module I/O composite module	169, 230
AJ65SBTB3-8D	Network Related Products Remote I/O Module Input module	168, 230
AJ65SBTC1-32D	Network Related Products Remote I/O Module Input module	173, 231
AJ65SBTC1-32D1	Network Related Products Remote I/O Module Input module	173, 231
AJ65SBTC1-32DT	Network Related Products Remote I/O Module I/O composite module	173, 231
AJ65SBTC1-32DT1	Network Related Products Remote I/O Module I/O composite module	173, 231
AJ65SBTC1-32DT2	Network Related Products Remote I/O Module I/O composite module	173, 231
AJ65SBTC1-32DT3	Network Related Products Remote I/O Module I/O composite module	173, 231
AJ65SBTC1-32T	Network Related Products Remote I/O Module Output module	173, 231
AJ65SBTC1-32T1	Network Related Products Remote I/O Module Output module	173, 231
AJ65SBTC4-16DE	Network Related Products Remote I/O Module Input module	173, 231
AJ65SBTC4-16DN	Network Related Products Remote I/O Module Input module	173, 231
AJ65SBTC4-16DT	Network Related Products Remote I/O Module I/O composite module	173, 231
AJ65SBTC4-16DT2	Network Related Products Remote I/O Module I/O composite module	173, 231
AJ65SBTCF1-32D	Network Related Products Remote I/O Module Input module	174, 231
AJ65SBTCF1-32DT	Network Related Products Remote I/O Module I/O composite module	174, 231
AJ65SBTCF1-32T	Network Related Products Remote I/O Module Output module	174, 231
AJ65SBT-CLB	Network Related Products Bridge Module	177, 233
AJ65SBT-RPG	Network Related Products Repeater Module	176, 232

Model	Product name	Page
AJ65SBT-RPS	Network Related Products Repeater Module	176, 232
AJ65SBT-RPT	Network Related Products Repeater Module	176, 232
AJ65VBTCE2-16T	Network Related Products Remote I/O Module Output module	172, 231
AJ65VBTCE2-8T	Network Related Products Remote I/O Module Output module	172, 231
AJ65VBTCE3-16D	Network Related Products Remote I/O Module Input module	172, 231
AJ65VBTCE3-16DE	Network Related Products Remote I/O Module Input module	172, 231
AJ65VBTCE3-16DTE	Network Related Products Remote I/O Module I/O composite module	172, 231
AJ65VBTCE3-16TE	Network Related Products Remote I/O Module Output module	172, 231
AJ65VBTCE32-16DT	Network Related Products Remote I/O Module I/O composite module	172, 231
AJ65VBTCE32-32DT	Network Related Products Remote I/O Module I/O composite module	172, 231
AJ65VBTCE3-32D	Network Related Products Remote I/O Module Input module	172, 231
AJ65VBTCE3-32DE	Network Related Products Remote I/O Module Input module	172, 231
AJ65VBTCE3-32DTE	Network Related Products Remote I/O Module I/O composite module	172, 231
AJ65VBTCE3-8D	Network Related Products Remote I/O Module Input module	172, 231
AJ65VBTCF1-32DT1	Network Related Products Remote I/O Module I/O composite module	174, 231
AJ65VBTCFJ1-32DT1	Network Related Products Remote I/O Module I/O composite module	174, 231
AJ65VBTUCU2-16T	Network Related Products Remote I/O Module Output module	173, 231
AJ65VBTUCU2-8T	Network Related Products Remote I/O Module Output module	173, 231
AJ65VBTUCU3-16D1	Network Related Products Remote I/O Module Input module	173, 231
AJ65VBTUCU3-8D1	Network Related Products Remote I/O Module Input module	173, 231
AJ65VBTUCU-68ADIN	Network Related Products Analog Module Current input	175, 232
AJ65VBTUCU-68ADV N	Network Related Products Analog Module Voltage input	175, 232
AJ65VBTUCU-68DAVN	Network Related Products Analog Module Voltage output	175, 232
AJ65VBTS2-16T	Network Related Products Remote I/O Module Output module	171, 231
AJ65VBTS2-32T	Network Related Products Remote I/O Module Output module	171, 231
AJ65VBTS3-16D	Network Related Products Remote I/O Module Input module	171, 231
AJ65VBTS32-16DT	Network Related Products Remote I/O Module I/O composite module	171, 231
AJ65VBTS32-32DT	Network Related Products Remote I/O Module I/O composite module	171, 231
AJ65VBTS3-32D	Network Related Products Remote I/O Module Input module	171, 231
AL-05DLS	Circuit Protector	705, 706
AL2-10MR-A	MELSEC-F Series α_2 Main Units	225
AL2-10MR-D	MELSEC-F Series α_2 Main Units	225
AL2-14MR-A	MELSEC-F Series α_2 Main Units	225
AL2-14MR-D	MELSEC-F Series α_2 Main Units	225
AL2-24MR-A	MELSEC-F Series α_2 Main Units	225
AL2-24MR-D	MELSEC-F Series α_2 Main Units	225
AL2-2DA	MELSEC-F Series α Extension Modules	225
AL2-2PT-ADP	MELSEC-F Series α Extension Modules	225

Index

Model	Product name	Page
AL2-2TC-ADP	MELSEC-F Series α Extension Modules	225
AL2-4EX	MELSEC-F Series α Extension Modules	225
AL2-4EX-A2	MELSEC-F Series α Extension Modules	225
AL2-4EYR	MELSEC-F Series α Extension Modules	225
AL2-4EYT	MELSEC-F Series α Extension Modules	225
AL2-ASI-BD	MELSEC-F Series α Extension Modules	225
ALAX-05DLS	Circuit Protector	705, 706
AX-05DLS	Circuit Protector	705, 706
AX2-05DLS	Circuit Protector	705, 706
B		
BAQ08V	MELSEC-Q Series BACnet™	221
BH	Miniature Circuit Breakers	702, 705, 838
BH-D10	Miniature Circuit Breakers	703, 705, 839
BH-D6	Miniature Circuit Breakers	703, 705, 839
BH-DN	Miniature Circuit Breakers	703, 705, 840
BH-P	Miniature Circuit Breakers	702, 705, 838
BV-D	Residual Current Circuit Breakers Isolating switch	704, 705, 841
BV-DN	Residual Current Circuit Breakers Isolating switch	704, 705, 842
C		
CL1-HLD	Network Related Products CC-Link Related Products	233
CL1PAD1	Network Related Products Power supply adapter	181, 233
CL1PSU-2A	Network Related Products Exclusive power supply	181, 233
CL1X2-D1D3S	Network Related Products Remote I/O Module Input module	180, 233
CL1X4-D1B2	Network Related Products Remote I/O Module Input module	178, 233
CL1X4-D1C3	Network Related Products Remote I/O Module Input module	179, 233
CL1X4-D1S2	Network Related Products Remote I/O Module Input module	178, 233
CL1XY2-DT1D5S	Network Related Products Remote I/O Module I/O composite module	180, 233
CL1XY4-DR1B2	Network Related Products Remote I/O Module I/O composite module	178, 233
CL1XY4-DT1B2	Network Related Products Remote I/O Module I/O composite module	178, 233
CL1XY8-DR1B2	Network Related Products Remote I/O Module I/O composite module	178, 233
CL1XY8-DT1B2	Network Related Products Remote I/O Module I/O composite module	178, 233
CL1Y2-T1D2S	Network Related Products Remote I/O Module Output module	180, 233
CL1Y4-R1B1	Network Related Products Remote I/O Module Output module	178, 233
CL1Y4-R1B2	Network Related Products Remote I/O Module Output module	178, 233
CL1Y4-T1B2	Network Related Products Remote I/O Module Output module	178, 233
CL1Y4-T1C2	Network Related Products Remote I/O Module Output module	179, 233
CL1Y4-T1S2	Network Related Products Remote I/O Module Output module	178, 233
CL2AD4-B	Network Related Products Analog Module Voltage/current input	180, 233

Model	Product name	Page
CL2DA2-B	Network Related Products Analog Module Voltage/current output	180, 233
CL2GA13-60	Network Related Products CC-Link Related Products	233
CL2GA21-300	Network Related Products CC-Link Related Products	233
CL2GA21-60	Network Related Products CC-Link Related Products	233
CL2GA31-60	Network Related Products CC-Link Related Products	233
CL2TE-10S	Network Related Products CC-Link Related Products	233
CL2TE-5	Network Related Products CC-Link Related Products	233
CL2X16-D1C3V	Network Related Products Remote I/O Module Input module	179, 233
CL2X16-D1M1V	Network Related Products Remote I/O Module Input module	179, 233
CL2X16-D1MJ1V	Network Related Products Remote I/O Module Input module	179, 233
CL2X8-D1B2	Network Related Products Remote I/O Module Input module	178, 233
CL2X8-D1C3V	Network Related Products Remote I/O Module Input module	179, 233
CL2X8-D1S2	Network Related Products Remote I/O Module Input module	178, 233
CL2XY16-DTP1C5V	Network Related Products Remote I/O Module I/O composite module	179, 233
CL2Y16-TP1C2V	Network Related Products Remote I/O Module Output module	179, 233
CL2Y16-TP1M1V	Network Related Products Remote I/O Module Output module	179, 233
CL2Y16-TP1MJ1V	Network Related Products Remote I/O Module Output module	179, 233
CL2Y16-TPE1M1V	Network Related Products Remote I/O Module Output module	179, 233
CL2Y8-TP1B2	Network Related Products Remote I/O Module Output module	178, 233
CL2Y8-TP1C2V	Network Related Products Remote I/O Module Output module	179, 233
CL2Y8-TP1S2	Network Related Products Remote I/O Module Output module	178, 233
CL2Y8-TPE1S2	Network Related Products Remote I/O Module Output module	178, 233
CP30-BA	Circuit Protector	707, 844
CP-S	Circuit Protector	707
CR750-D	Industrial Robot	654
CR750-MB	Controller protection box	658
CR750-Q	MELSEC-Q Series Robot Controller	96, 654
CR751-D	Industrial Robot	654
CR751-MB	Controller protection box	658
CR751-Q	MELSEC-Q Series Robot Controller	96, 654
CR760-D	Industrial Robot	655
CR760-Q	Industrial Robot	655
CZ-112S	EcoMonitorLight Split-type Zero-phase Current Transformer	949
CZ-22S	EcoMonitorLight Split-type Zero-phase Current Transformer	949
CZ-30S	EcoMonitorLight Split-type Zero-phase Current Transformer	949
CZ-55S	EcoMonitorLight Split-type Zero-phase Current Transformer	949
CZ-77S	EcoMonitorLight Split-type Zero-phase Current Transformer	949
E		

Model	Product name	Page
EMU2-CB-Q5B	EcoMonitorLight 5A Current sensor cable	942
EMU2-CB-Q5B-4W	EcoMonitorLight 5A Current sensor cable	942
EMU2-CB-T□M	EcoMonitorLight Extension cable (Standard type)	942
EMU2-CB-T□MS	EcoMonitorLight Extension cable (Separate type)	942
EMU2-CT5	EcoMonitorPro Split form Split type current sensor	925, 939, 942
EMU2-CT5-4W	EcoMonitorPro Split form Split type current sensor	925, 939, 942
EMU2-D65	EcoMonitorPro Display unit	926
EMU2-D65-M	EcoMonitorPro Logging display unit	926
EMU2-HM1-C	Energy-saving supporting devices EcoMonitorPro	924
EMU2-PK3-EN	EcoMonitorPro Split form Data collection PC Kit	925
EMU2-RD1-C	Energy-saving supporting devices EcoMonitorPro	924
EMU2-RD2-C-4W	Energy-saving supporting devices EcoMonitorPro	924
EMU2-RD2-F-4W	Energy-saving supporting devices EcoMonitorPro	924
EMU2-RD3-C	Energy-saving supporting devices EcoMonitorPro	924
EMU2-RD3-F	Energy-saving supporting devices EcoMonitorPro	924
EMU2-RD4-C-4W	Energy-saving supporting devices EcoMonitorPro	924
EMU2-RD4-F-4W	Energy-saving supporting devices EcoMonitorPro	924
EMU2-RD5-C	Energy-saving supporting devices EcoMonitorPro	924
EMU2-RD5-F	Energy-saving supporting devices EcoMonitorPro	924
EMU2-RD7-C	Energy-saving supporting devices EcoMonitorPro	924
EMU2-RD7-F	Energy-saving supporting devices EcoMonitorPro	924
EMU4-A2	EcoMonitorLight Energy Measuring Unit (Extension Unit)	944, 948, 950
EMU4-BD1-MB	EcoMonitorLight	927, 935, 936, 941, 943
EMU4-BM1-MB	EcoMonitorLight Energy Measuring Unit	944, 947
EMU4-BT	EcoMonitorLight Lithium battery for logging unit	939
EMU4-CM-C	EcoMonitorLight CC-Link Communication Unit	928, 938, 941, 944
EMU4-HD1-MB	EcoMonitorLight	927, 935, 936, 941, 943
EMU4-HM1-MB	EcoMonitorLight Energy Measuring Unit	944, 947, 950
EMU4-LG1-MB	EcoMonitorLight Energy Measuring Unit	944, 947, 950
EMU4-LM	EcoMonitorLight Logging Unit	928, 937, 941, 944
EMU4-PAT	EcoMonitorLight Panel mounting attachment	941
EMU4-SD2GB	EcoMonitorLight SD memory card for logging unit	939
EMU4-SW1	EcoMonitorLight Software	944
EMU4-VA2	EcoMonitorLight Energy Measuring Unit (Extension Unit)	944, 948, 950
EMU-CT100	EcoMonitorPro Split form Split type current sensor	925, 939, 942
EMU-CT100-A	EcoMonitorPro Split form Split type current sensor	925, 939, 942
EMU-CT250	EcoMonitorPro Split form Split type current sensor	925, 939, 942
EMU-CT250-A	EcoMonitorPro Split form Split type current sensor	925, 939, 942

Model	Product name	Page
EMU-CT400-A	EcoMonitorPro Split form Split type current sensor	925, 939, 942
EMU-CT50	EcoMonitorPro Split form Split type current sensor	925
EMU-CT50-A	EcoMonitorPro Split form Split type current sensor	925, 939, 942
EMU-CT5-A	EcoMonitorPro Split form Split type current sensor	925
EMU-CT600-A	EcoMonitorPro Split form Split type current sensor	925, 939, 942
F		
FA-CNV240□CBL	RS-422 conversion cable	624
FA-LTBGT2R4CBL□□	RS-485 terminal block conversion unit	624
FA-LTBGTR4CBL□□	RS-485 terminal block conversion unit	629
FR-A820-□□ CRN	Inverter FREQROL-A800 Plus Series for CRANES	469
FR-A820-□□K	Inverter FREQROL-A800 Plus Series for CRANES	473
FR-A820-□□K R2R	Inverter FREQROL-A800 Plus Series for Roll to Roll	483, 487
FR-A820-□□K(GF)	Inverter FREQROL-A800 Series	448, 454, 455
FR-A840-□□□ CRN	Inverter FREQROL-A800 Plus Series for CRANES	470
FR-A840-□□□K	Inverter FREQROL-A800 Plus Series for CRANES	473
FR-A840-□□□K R2R	Inverter FREQROL-A800 Plus Series for Roll to Roll	484, 487
FR-A840-□□□K(GF)	Inverter FREQROL-A800 Series	454, 455
FR-A840-□□□K(GF)	Inverter FREQROL-A800 Series	449
FR-A842-□□□ CRN	Inverter FREQROL-A800 Plus Series for CRANES	471
FR-A842-□□□K R2R	Inverter FREQROL-A800 Plus Series for Roll to Roll	485, 488
FR-A842-□□□K(GF)	Inverter FREQROL-A800 Series	450, 456
FR-A842-□□□K	Inverter FREQROL-A800 Plus Series for CRANES	474
FR-A846-□□□K	Inverter FREQROL-A800 Series	451, 457
FR-A8CN□□	Inverter FREQROL-F800 Series	511
FR-BFP2-□□□K	Inverter FREQROL-F700PJ Series	549
FR-CC2-H□□□K	Inverter FREQROL-A800 Series	450, 456, 471, 485, 501, 509, 512
FR-D710W-□□□K	Inverter FREQROL-D700 Series	562, 564
FR-D720-□□□K	Inverter FREQROL-D700 Series	562, 564
FR-D720S-□□□K	Inverter FREQROL-D700 Series	562, 564
FR-D740-□□□K	Inverter FREQROL-D700 Series	562, 564
FR-DU08	Inverter FREQROL-A800 Series	458, 510
FR-E710W-□□K	Inverter FREQROL-E700 Series	529, 531, 532
FR-E720-□□K(-C)	Inverter FREQROL-E700 Series	528
FR-E720-□□K(SC)	Inverter FREQROL-E700 Series	531, 532, 533
FR-E720S-□□K(-C)	Inverter FREQROL-E700 Series	529
FR-E720S-□□K(SC)	Inverter FREQROL-E700 Series	531, 532, 533
FR-E740-□□K(-C)	Inverter FREQROL-E700 Series	528
FR-E740-□□K(SC)	Inverter FREQROL-E700 Series	533, 534

Index

Model	Product name	Page
FR-F720PJ-□□K	Inverter FREQROL-F700PJ Series	549, 551
FR-F720PJ-□□KF	Inverter FREQROL-F700PJ Series	552
FR-F740PJ-□□K	Inverter FREQROL-F700PJ Series	549, 551
FR-F740PJ-□□KF	Inverter FREQROL-F700PJ Series	552
FR-F820-□□K	Inverter FREQROL-F800 Series	500, 504, 505, 506
FR-F840-□□K	Inverter FREQROL-F800 Series	500, 504, 505, 506, 507, 512
FR-F842-□□K	Inverter FREQROL-F800 Series	501, 508, 512
FR-LU08	Inverter FREQROL-A800 Series	458, 510
FX0N-3A	MELSEC-F Series FX0N/FX2N Special Function Blocks	226
FX-10DM-E	MELSEC-F Series Accessories	226
FX-16E-150CAB	MELSEC iQ-F Series Input/output cable	210
FX-16E-150CAB-R	MELSEC iQ-F Series Input/output cable	210
FX-16E-300CAB	MELSEC iQ-F Series Input/output cable	210
FX-16E-300CAB-R	MELSEC iQ-F Series Input/output cable	210
FX-16E-500CAB	MELSEC iQ-F Series Input/output cable	210
FX-16E-500CAB-R	MELSEC iQ-F Series Input/output cable	210
FX-16E-500CAB-S	MELSEC iQ-F Series Input/output cable	210
FX-16E-TB	MELSEC iQ-F Series Terminal module	85, 211
FX-16E-TB/UL	MELSEC iQ-F Series Terminal module	85, 211, 226
FX-16EYR-ES-TB/UL	MELSEC iQ-F Series Terminal module	85, 211, 226
FX-16EYR-TB	MELSEC iQ-F Series Terminal module	85, 211
FX-16EYS-ES-TB/UL	MELSEC iQ-F Series Terminal module	85, 211, 226
FX-16EYS-TB	MELSEC iQ-F Series Terminal module	85, 211
FX-16EYT-ESS-TB/UL	MELSEC iQ-F Series Terminal module	85, 211, 226
FX-16EYT-ES-TB/UL	MELSEC iQ-F Series Terminal module	85, 211, 226
FX-16EYT-TB	MELSEC iQ-F Series Terminal module	85, 211
FX1N-1DA-BD	MELSEC-F Series Expansion Boards	226
FX1N-232-BD	MELSEC-F Series Expansion Boards	226
FX1N-2AD-BD	MELSEC-F Series Expansion Boards	226
FX1N-2EYT-BD	MELSEC-F Series Expansion Boards	226
FX1N-422-BD	MELSEC-F Series Expansion Boards	226
FX1N-485-BD	MELSEC-F Series Expansion Boards	226
FX1N-4EX-BD	MELSEC-F Series Expansion Boards	226
FX1N-5DM	MELSEC-F Series Accessories	226
FX1N-8AV-BD	MELSEC-F Series Expansion Boards	226
FX1N-BAT	MELSEC-F Series Accessories	226
FX1N-CNV-BD	MELSEC-F Series Expansion Boards	226
FX1N-EEPROM-8L	MELSEC-F Series Memory Cassettes	226

Model	Product name	Page
FX-232AWC-H	MELSEC-F Series Accessories	226
FX-232CAB-1	MELSEC iQ-F Series Communication cable	210
FX2C-I/O-CON	MELSEC iQ-F Series Input/output connector	211
FX2C-I/O-CON-S	MELSEC iQ-F Series Input/output connector	211
FX2C-I/O-CON-SA	MELSEC iQ-F Series Input/output connector	211
FX2N-10GM	MELSEC-F Series FX0N/FX2N Special Function Blocks	226
FX2N-10PG	MELSEC-F Series FX0N/FX2N Special Function Blocks	226
FX2N-16EX-ES/UL	MELSEC-F Series FX2N Extension Blocks	226
FX2N-16EYR-ES/UL	MELSEC-F Series FX2N Extension Blocks	226
FX2N-16EYS	MELSEC-F Series FX2N Extension Blocks	226
FX2N-16EYT-ESS/UL	MELSEC-F Series FX2N Extension Blocks	226
FX2N-1HC	MELSEC-F Series FX0N/FX2N Special Function Blocks	226
FX2N-1PG-E	MELSEC-F Series FX0N/FX2N Special Function Blocks	226
FX2N-1RM-E-SET	MELSEC-F Series FX0N/FX2N Special Function Blocks	226
FX2N-20GM	MELSEC-F Series FX0N/FX2N Special Function Blocks	226
FX2N-20PSU	MELSEC-F Series Accessories	226
FX2N-232IF	MELSEC-F Series FX0N/FX2N Special Function Blocks	226
FX2N-2AD	MELSEC-F Series FX0N/FX2N Special Function Blocks	226
FX2N-2DA	MELSEC-F Series FX0N/FX2N Special Function Blocks	226
FX2N-2LC	MELSEC-F Series FX0N/FX2N Special Function Blocks	226
FX2N-32CCL	MELSEC-F Series FX0N/FX2N Special Function Blocks	226, 232
FX2N-32ER-ES/UL	MELSEC-F Series FX2N Extension Units	225
FX2N-32ET-ESS/UL	MELSEC-F Series FX2N Extension Units	225
FX2N-48ER-DS	MELSEC-F Series FX2N Extension Units	225
FX2N-48ER-ES/UL	MELSEC-F Series FX2N Extension Units	225
FX2N-48ER-UA1/UL	MELSEC-F Series FX2N Extension Units	225
FX2N-48ET-DSS	MELSEC-F Series FX2N Extension Units	225
FX2N-48ET-ESS/UL	MELSEC-F Series FX2N Extension Units	225
FX2N-4AD	MELSEC-F Series FX0N/FX2N Special Function Blocks	226
FX2N-4AD-PT	MELSEC-F Series FX0N/FX2N Special Function Blocks	226
FX2N-4AD-TC	MELSEC-F Series FX0N/FX2N Special Function Blocks	226
FX2N-4DA	MELSEC-F Series FX0N/FX2N Special Function Blocks	226
FX2N-5A	MELSEC-F Series FX0N/FX2N Special Function Blocks	226
FX2N-64CL-M	MELSEC-F Series FX0N/FX2N Special Function Blocks	226, 233
FX2N-8AD	MELSEC-F Series FX0N/FX2N Special Function Blocks	226
FX2N-8ER-ES/UL	MELSEC-F Series FX2N Extension Blocks	226
FX2N-8EX-ES/UL	MELSEC-F Series FX2N Extension Blocks	226
FX2N-8EX-UA1/UL	MELSEC-F Series FX2N Extension Blocks	226

Model	Product name	Page
FX2N-8EYR-ES/UL	MELSEC-F Series FX2N Extension Blocks	226
FX2N-8EYT-ESS/UL	MELSEC-F Series FX2N Extension Blocks	226
FX2NC-100BPCB	MELSEC iQ-F Series Power cable	211
FX2NC-100MPCB	MELSEC iQ-F Series Power cable	211
FX2NC-10BPCB1	MELSEC iQ-F Series Power cable	211
FX2NC-16EX-DS	MELSEC-F Series FX2NC Extension Blocks	226
FX2NC-16EX-T-DS	MELSEC-F Series FX2NC Extension Blocks	226
FX2NC-16EYR-T-DS	MELSEC-F Series FX2NC Extension Blocks	226
FX2NC-16EYT-DSS	MELSEC-F Series FX2NC Extension Blocks	226
FX2NC-1HC	MELSEC-F Series FX2NC Special Adapters & Special Function Blocks	226
FX2NC-232ADP	MELSEC-F Series FX2NC Special Adapters & Special Function Blocks	226
FX2NC-32EX-DS	MELSEC-F Series FX2NC Extension Blocks	226
FX2NC-32EYT-DSS	MELSEC-F Series FX2NC Extension Blocks	226
FX2NC-485ADP	MELSEC-F Series FX2NC Special Adapters & Special Function Blocks	226
FX2NC-4AD	MELSEC-F Series FX2NC Special Adapters & Special Function Blocks	226
FX2NC-4DA	MELSEC-F Series FX2NC Special Adapters & Special Function Blocks	226
FX2NC-CNV-IF	MELSEC-F Series FX2NC Special Adapters & Special Function Blocks	226
FX2N-CNV-BC	MELSEC-F Series Accessories	226
FX-30P	MELSEC-F Series Accessories	226
FX-32E-TB	MELSEC iQ-F Series Terminal module	85, 211
FX-32E-TB/UL	MELSEC iQ-F Series Terminal module	85, 211, 226
FX3G-14M□/□□	MELSEC-F Series FX3G Main Units	138
FX3G-14M□/□□□	MELSEC-F Series FX3G Main Units	138
FX3G-14MR/DS	MELSEC-F Series FX3G Main Units	225
FX3G-14MR/ES-A	MELSEC-F Series FX3G Main Units	225
FX3G-14MT/DS	MELSEC-F Series FX3G Main Units	225
FX3G-14MT/DSS	MELSEC-F Series FX3G Main Units	225
FX3G-14MT/ES-A	MELSEC-F Series FX3G Main Units	225
FX3G-14MT/ESS	MELSEC-F Series FX3G Main Units	225
FX3G-1DA-BD	MELSEC-F Series FX3G Analog	138, 226
FX3G-232-BD	MELSEC-F Series FX3G Communication	138, 226
FX3G-24M□/□□	MELSEC-F Series FX3G Main Units	138
FX3G-24M□/□□□	MELSEC-F Series FX3G Main Units	138
FX3G-24MR/DS	MELSEC-F Series FX3G Main Units	225
FX3G-24MR/ES-A	MELSEC-F Series FX3G Main Units	225
FX3G-24MT/DS	MELSEC-F Series FX3G Main Units	225
FX3G-24MT/DSS	MELSEC-F Series FX3G Main Units	225
FX3G-24MT/ES-A	MELSEC-F Series FX3G Main Units	225

Model	Product name	Page
FX3G-24MT/ESS	MELSEC-F Series FX3G Main Units	225
FX3G-2AD-BD	MELSEC-F Series FX3G Analog	138, 226
FX3G-40M□/□□	MELSEC-F Series FX3G Main Units	138
FX3G-40M□/□□□	MELSEC-F Series FX3G Main Units	138
FX3G-40MR/DS	MELSEC-F Series FX3G Main Units	225
FX3G-40MR/ES-A	MELSEC-F Series FX3G Main Units	225
FX3G-40MT/DS	MELSEC-F Series FX3G Main Units	225
FX3G-40MT/DSS	MELSEC-F Series FX3G Main Units	225
FX3G-40MT/ES-A	MELSEC-F Series FX3G Main Units	225
FX3G-40MT/ESS	MELSEC-F Series FX3G Main Units	225
FX3G-422-BD	MELSEC-F Series FX3G Communication	138, 226
FX3G-485-BD	MELSEC-F Series FX3G Communication	138, 226
FX3G-5DM	MELSEC-F Series FX3G Display Module	139, 226
FX3G-60M□/□□	MELSEC-F Series FX3G Main Units	138
FX3G-60M□/□□□	MELSEC-F Series FX3G Main Units	138
FX3G-60MR/DS	MELSEC-F Series FX3G Main Units	225
FX3G-60MR/ES-A	MELSEC-F Series FX3G Main Units	225
FX3G-60MT/DS	MELSEC-F Series FX3G Main Units	225
FX3G-60MT/DSS	MELSEC-F Series FX3G Main Units	225
FX3G-60MT/ES-A	MELSEC-F Series FX3G Main Units	225
FX3G-60MT/ESS	MELSEC-F Series FX3G Main Units	225
FX3G-8AV-BD	MELSEC-F Series FX3G Analog Setpoint	138, 226
FX3GC-32MT/D	MELSEC-F Series FX3GC Main Units	140, 225
FX3GC-32MT/DSS	MELSEC-F Series FX3GC Main Units	140, 225
FX3G-CNV-ADP	MELSEC-F Series FX3G Interface Adapter	138, 226
FX3G-EEPROM-32L	MELSEC-F Series FX3G Memory Cassette	139, 226
FX3S-10M□/□□	MELSEC-F Series FX3S Main Units	143
FX3S-10M□/□□□	MELSEC-F Series FX3S Main Units	143
FX3S-10MR/ES	MELSEC-F Series FX3S Main Units	225
FX3S-10MT/ES	MELSEC-F Series FX3S Main Units	225
FX3S-10MT/ESS	MELSEC-F Series FX3S Main Units	225
FX3S-14M□/□□	MELSEC-F Series FX3S Main Units	143
FX3S-14M□/□□□	MELSEC-F Series FX3S Main Units	143
FX3S-14MR/ES	MELSEC-F Series FX3S Main Units	225
FX3S-14MT/ES	MELSEC-F Series FX3S Main Units	225
FX3S-14MT/ESS	MELSEC-F Series FX3S Main Units	225
FX3S-20M□/□□	MELSEC-F Series FX3S Main Units	143
FX3S-20M□/□□□	MELSEC-F Series FX3S Main Units	143

Index

Model	Product name	Page
FX3S-20MR/ES	MELSEC-F Series FX3S Main Units	225
FX3S-20MT/ES	MELSEC-F Series FX3S Main Units	225
FX3S-20MT/ESS	MELSEC-F Series FX3S Main Units	225
FX3S-30M□□□	MELSEC-F Series FX3S Main Units	143
FX3S-30M□□□□	MELSEC-F Series FX3S Main Units	143
FX3S-30MR/ES	MELSEC-F Series FX3S Main Units	225
FX3S-30MT/ES	MELSEC-F Series FX3S Main Units	225
FX3S-30MT/ESS	MELSEC-F Series FX3S Main Units	225
FX3S-CNV-ADP	MELSEC-F Series FX3S Interface Adapter	142, 226
FX3U-128ASL-M	MELSEC iQ-F Series FX3 intelligent function module	65, 67, 70, 72, 85, 210
FX3U-128M□□□	MELSEC-F Series FX3U Main Units	136
FX3U-128M□□□□	MELSEC-F Series FX3U Main Units	136
FX3U-128MR/ES-A	MELSEC-F Series FX3U Main Units	225
FX3U-128MT/ESS	MELSEC-F Series FX3U Main Units	225
FX3U-16CCL-M	MELSEC iQ-F Series FX3 intelligent function module	65, 67, 70, 72, 85, 137, 210, 226, 230
FX3U-16M□□□	MELSEC-F Series FX3U Main Units	136
FX3U-16M□□□□	MELSEC-F Series FX3U Main Units	136
FX3U-16MR/DS	MELSEC-F Series FX3U Main Units	225
FX3U-16MR/ES-A	MELSEC-F Series FX3U Main Units	225
FX3U-16MT/DS	MELSEC-F Series FX3U Main Units	225
FX3U-16MT/DSS	MELSEC-F Series FX3U Main Units	225
FX3U-16MT/ES-A	MELSEC-F Series FX3U Main Units	225
FX3U-16MT/ESS	MELSEC-F Series FX3U Main Units	225
FX3U-1PG	MELSEC iQ-F Series FX3 intelligent function module	65, 67, 70, 72, 85, 137, 210, 226
FX3U-1PSU-5V	MELSEC iQ-F Series FX3 Extension power supply module	64, 85, 137, 210, 226
FX3U-20SSC-H	MELSEC-F Series FX3U Special Function Blocks	137, 226
FX3U-232ADP-MB	MELSEC-F Series FX3U Communication	136, 226
FX3U-232-BD	MELSEC-F Series FX3U Communication	136, 226
FX3U-2HC	MELSEC iQ-F Series FX3 intelligent function module	65, 67, 70, 72, 85, 137, 210, 226
FX3U-2HSY-ADP	MELSEC-F Series FX3U Positioning	136, 226
FX3U-32BL	MELSEC-F Series FX3U Battery	137, 211
FX3U-32M□□□	MELSEC-F Series FX3U Main Units	136
FX3U-32M□□□□	MELSEC-F Series FX3U Main Units	136
FX3U-32MR/DS	MELSEC-F Series FX3U Main Units	225
FX3U-32MR/ES-A	MELSEC-F Series FX3U Main Units	225
FX3U-32MR/UA1	MELSEC-F Series FX3U Main Units	225
FX3U-32MS/ES	MELSEC-F Series FX3U Main Units	225
FX3U-32MT/DS	MELSEC-F Series FX3U Main Units	225

Model	Product name	Page
FX3U-32MT/DSS	MELSEC-F Series FX3U Main Units	225
FX3U-32MT/ES-A	MELSEC-F Series FX3U Main Units	225
FX3U-32MT/ESS	MELSEC-F Series FX3U Main Units	225
FX3U-3A-ADP	MELSEC-F Series FX3U Analog	136, 226
FX3U-422-BD	MELSEC-F Series FX3U Communication	136, 226
FX3U-485ADP-MB	MELSEC-F Series FX3U Communication	136, 226
FX3U-485-BD	MELSEC-F Series FX3U Communication	136, 226
FX3U-48M□□□	MELSEC-F Series FX3U Main Units	136
FX3U-48M□□□□	MELSEC-F Series FX3U Main Units	136
FX3U-48MR/DS	MELSEC-F Series FX3U Main Units	225
FX3U-48MR/ES-A	MELSEC-F Series FX3U Main Units	225
FX3U-48MT/DS	MELSEC-F Series FX3U Main Units	225
FX3U-48MT/DSS	MELSEC-F Series FX3U Main Units	225
FX3U-48MT/ES-A	MELSEC-F Series FX3U Main Units	225
FX3U-48MT/ESS	MELSEC-F Series FX3U Main Units	225
FX3U-4AD	MELSEC iQ-F Series FX3 intelligent function module	65, 67, 70, 72, 85, 137, 210, 226
FX3U-4AD-ADP	MELSEC-F Series FX3U Analog	136, 226
FX3U-4AD-PNK-ADP	MELSEC-F Series FX3U Temperature	136, 226
FX3U-4AD-PT-ADP	MELSEC-F Series FX3U Temperature	136, 226
FX3U-4AD-PTW-ADP	MELSEC-F Series FX3U Temperature	136, 226
FX3U-4AD-TC-ADP	MELSEC-F Series FX3U Temperature	136, 226
FX3U-4DA	MELSEC iQ-F Series FX3 intelligent function module	65, 67, 70, 72, 85, 137, 210, 226
FX3U-4DA-ADP	MELSEC-F Series FX3U Analog	136, 226
FX3U-4HSX-ADP	MELSEC-F Series FX3U High Speed Counter	136, 226
FX3U-4LC	MELSEC iQ-F Series FX3 intelligent function module	65, 67, 70, 72, 85, 137, 210, 226
FX3U-64CCL	MELSEC iQ-F Series FX3 intelligent function module	65, 67, 70, 72, 85, 137, 210, 226, 232
FX3U-64M□□□	MELSEC-F Series FX3U Main Units	136
FX3U-64M□□□□	MELSEC-F Series FX3U Main Units	136
FX3U-64MR/DS	MELSEC-F Series FX3U Main Units	225
FX3U-64MR/ES-A	MELSEC-F Series FX3U Main Units	225
FX3U-64MR/UA1	MELSEC-F Series FX3U Main Units	225
FX3U-64MS/ES	MELSEC-F Series FX3U Main Units	225
FX3U-64MT/DS	MELSEC-F Series FX3U Main Units	225
FX3U-64MT/DSS	MELSEC-F Series FX3U Main Units	225
FX3U-64MT/ES-A	MELSEC-F Series FX3U Main Units	225
FX3U-64MT/ESS	MELSEC-F Series FX3U Main Units	225
FX3U-7DM	MELSEC-F Series FX3U Display Module	137, 226
FX3U-7DM-HLD	MELSEC-F Series FX3U Display Module Holder	137, 226

Model	Product name	Page
FX3U-80M□/□□	MELSEC-F Series FX3U Main Units	136
FX3U-80M□/□□□	MELSEC-F Series FX3U Main Units	136
FX3U-80MR/DS	MELSEC-F Series FX3U Main Units	225
FX3U-80MR/ES-A	MELSEC-F Series FX3U Main Units	225
FX3U-80MT/DS	MELSEC-F Series FX3U Main Units	225
FX3U-80MT/DSS	MELSEC-F Series FX3U Main Units	225
FX3U-80MT/ES-A	MELSEC-F Series FX3U Main Units	225
FX3U-80MT/ESS	MELSEC-F Series FX3U Main Units	225
FX3U-8AV-BD	MELSEC-F Series FX3U Analog Setpoint	136, 226
FX3UC-16M□/□	MELSEC-F Series FX3UC Main Units	144
FX3UC-16M□/□□	MELSEC-F Series FX3UC Main Units	144
FX3UC-16M□/□□□	MELSEC-F Series FX3UC Main Units	144
FX3UC-16MR/DS-T	MELSEC-F Series FX3UC Main Units	225
FX3UC-16MR/D-T	MELSEC-F Series FX3UC Main Units	225
FX3UC-16MT/D	MELSEC-F Series FX3UC Main Units	225
FX3UC-16MT/DSS	MELSEC-F Series FX3UC Main Units	225
FX3UC-1PS-5V	MELSEC-F Series FX3UC Special Function Blocks	226
FX3UC-32M□/□	MELSEC-F Series FX3UC Main Units	144
FX3UC-32M□/□□	MELSEC-F Series FX3UC Main Units	144
FX3UC-32M□/□□□	MELSEC-F Series FX3UC Main Units	144
FX3UC-32MT/D	MELSEC-F Series FX3UC Main Units	225
FX3UC-32MT/DSS	MELSEC-F Series FX3UC Main Units	225
FX3UC-32MT-LT(-2)	Network Related Products CC-Link Related Products	233
FX3UC-4AD	MELSEC-F Series FX3UC Special Function Blocks Analog	145, 226
FX3UC-64M□/□	MELSEC-F Series FX3UC Main Units	144
FX3UC-64M□/□□	MELSEC-F Series FX3UC Main Units	144
FX3UC-64M□/□□□	MELSEC-F Series FX3UC Main Units	144
FX3UC-64MT/D	MELSEC-F Series FX3UC Main Units	225
FX3UC-64MT/DSS	MELSEC-F Series FX3UC Main Units	225
FX3UC-96M□/□	MELSEC-F Series FX3UC Main Units	144
FX3UC-96M□/□□	MELSEC-F Series FX3UC Main Units	144
FX3UC-96M□/□□□	MELSEC-F Series FX3UC Main Units	144
FX3UC-96MT/D	MELSEC-F Series FX3UC Main Units	225
FX3UC-96MT/DSS	MELSEC-F Series FX3UC Main Units	225
FX3U-CF-ADP	MELSEC-F Series FX3U Data Logging	136, 226
FX3U-CNV-BD	MELSEC-F Series FX3U Interface Board	136, 226
FX3U-ENET-ADP	MELSEC-F Series FX3U Network	136, 226
FX3U-ENET-L	MELSEC-F Series FX3U Network	137, 226

Model	Product name	Page
FX3U-FLROM-□□	MELSEC-F Series FX3U Memory Cassettes	137
FX3U-FLROM-□□□	MELSEC-F Series FX3U Memory Cassettes	137
FX3U-FLROM-16	MELSEC-F Series Memory Cassettes	226
FX3U-FLROM-1M	MELSEC-F Series Memory Cassettes	226
FX3U-FLROM-64	MELSEC-F Series Memory Cassettes	226
FX3U-FLROM-64L	MELSEC-F Series Memory Cassettes	226
FX3U-USB-BD	MELSEC-F Series FX3U Communication	136, 226
FX-485PC-IF	MELSEC-F Series Accessories	226
FX5-16ET/ES-H	MELSEC iQ-F Series I/O module (extension cable type)	63, 67, 69, 72, 77, 79, 82, 85, 209
FX5-16ET/ESS-H	MELSEC iQ-F Series I/O module (extension cable type)	63, 67, 69, 72, 77, 80, 82, 85, 209
FX5-16EX/ES	MELSEC iQ-F Series I/O module (extension cable type)	63, 69, 77, 82, 85, 209
FX5-16EYR/ES	MELSEC iQ-F Series I/O module (extension cable type)	63, 69, 80, 82, 85, 209
FX5-16EYT/ES	MELSEC iQ-F Series I/O module (extension cable type)	63, 69, 79, 82, 85, 209
FX5-16EYT/ESS	MELSEC iQ-F Series I/O module (extension cable type)	63, 69, 80, 82, 85, 209
FX5-1PSU-5V	MELSEC iQ-F Series FX5 Extension power supply module	63, 83, 85, 210
FX5-232ADP	MELSEC iQ-F Series FX5U	58, 60, 64, 70, 82, 85, 210
FX5-232-BD	MELSEC iQ-F Series FX5U	58, 64, 82, 85, 210
FX5-30EC	MELSEC iQ-F Series Extended extension cable	85, 211
FX5-32ER/DS	MELSEC iQ-F Series I/O module (DC power supply/DC input type) (extension cable type)	63, 69, 78, 80, 82, 85, 209
FX5-32ER/ES	MELSEC iQ-F Series I/O module (AC power supply/DC input type) (extension cable type)	63, 78, 80, 82, 85, 209
FX5-32ET/DS	MELSEC iQ-F Series I/O module (DC power supply/DC input type) (extension cable type)	63, 69, 78, 79, 82, 85, 209
FX5-32ET/DSS	MELSEC iQ-F Series I/O module (DC power supply/DC input type) (extension cable type)	63, 69, 78, 80, 82, 85, 209
FX5-32ET/ES	MELSEC iQ-F Series I/O module (AC power supply/DC input type) (extension cable type)	63, 78, 79, 82, 85, 209
FX5-32ET/ESS	MELSEC iQ-F Series I/O module (AC power supply/DC input type) (extension cable type)	63, 78, 80, 82, 85, 209
FX5-40SSC-S	MELSEC iQ-F Series FX5 intelligent function module	63, 69, 84, 85, 210
FX5-422-BD-GOT	MELSEC iQ-F Series FX5U	58, 64, 82, 85, 210
FX5-485ADP	MELSEC iQ-F Series FX5U	58, 60, 64, 70, 82, 85, 210
FX5-485-BD	MELSEC iQ-F Series FX5U	58, 64, 82, 85, 210
FX5-4AD-ADP	MELSEC iQ-F Series FX5U	58, 60, 64, 70, 74, 82, 85, 210
FX5-4DA-ADP	MELSEC iQ-F Series FX5U	58, 60, 64, 70, 74, 82, 85, 210
FX5-65EC	MELSEC iQ-F Series Extended extension cable	85, 211
FX5-8EX/ES	MELSEC iQ-F Series I/O module (extension cable type)	63, 69, 77, 82, 85, 209
FX5-8EYR/ES	MELSEC iQ-F Series I/O module (extension cable type)	63, 69, 80, 82, 85, 209
FX5-8EYT/ES	MELSEC iQ-F Series I/O module (extension cable type)	63, 69, 79, 82, 85, 209
FX5-8EYT/ESS	MELSEC iQ-F Series I/O module (extension cable type)	63, 69, 80, 82, 85, 209
FX5-C16EX/D	MELSEC iQ-F Series FX5UC	60, 64, 69, 77, 82, 85, 209
FX5-C16EX/DS	MELSEC iQ-F Series FX5UC	60, 64, 69, 77, 82, 85, 209
FX5-C16EYT/D	MELSEC iQ-F Series FX5UC	60, 64, 69, 79, 82, 85, 209

Index

Model	Product name	Page
FX5-C16EYT/DSS	MELSEC iQ-F Series FX5uc	60, 64, 69, 80, 82, 85, 209
FX5-C1PS-5V	MELSEC iQ-F Series FX5 Extension power supply module	63, 69, 83, 85, 210,
FX5-C32ET/D	MELSEC iQ-F Series FX5uc	60, 64, 69, 77, 79, 82, 85, 209
FX5-C32ET/DSS	MELSEC iQ-F Series FX5uc	60, 64, 69, 77, 80, 82, 85, 209
FX5-C32EX/D	MELSEC iQ-F Series FX5uc	60, 64, 69, 77, 82, 85, 209
FX5-C32EX/DS	MELSEC iQ-F Series FX5uc	60, 64, 69, 77, 82, 85, 209
FX5-C32EYT/D	MELSEC iQ-F Series FX5uc	60, 64, 69, 79, 82, 85, 209
FX5-C32EYT/DSS	MELSEC iQ-F Series FX5uc	60, 64, 69, 80, 82, 85, 209
FX5-CCLIEF	MELSEC iQ-F Series FX5 intelligent function module	63, 67, 69, 72, 83, 85, 210, 228
FX5-CNV-BC	MELSEC iQ-F Series Connector conversion adapter	85, 211
FX5-CNV-BUS	MELSEC iQ-F Series Bus conversion module	64, 70, 83, 85, 210
FX5-CNV-BUSC	MELSEC iQ-F Series Bus conversion module	64, 70, 83, 85, 210
FX5-CNV-IF	MELSEC iQ-F Series Connector conversion module	64, 83, 85, 210
FX5-CNV-IFC	MELSEC iQ-F Series Connector conversion module	69, 83, 85, 210
FX5U-32M□	MELSEC iQ-F Series FX5U CPU module	75
FX5U-32M□/□□	MELSEC iQ-F Series FX5U	58
FX5U-32M□/□□□	MELSEC iQ-F Series FX5U	58
FX5U-32MR/□	MELSEC iQ-F Series Relay output (FX5U CPU module)	78
FX5U-32MR/DS	MELSEC iQ-F Series CPU module (DC power supply/DC input type)	63, 85, 209
FX5U-32MR/ES	MELSEC iQ-F Series CPU module (AC power supply, DC input type)	62, 85, 209
FX5U-32MT/□	MELSEC iQ-F Series Transistor output (FX5U/FX5uc CPU module)	79
FX5U-32MT/DS	MELSEC iQ-F Series CPU module (DC power supply/DC input type)	63, 85, 209
FX5U-32MT/DSS	MELSEC iQ-F Series CPU module (DC power supply/DC input type)	63, 85, 209
FX5U-32MT/ES	MELSEC iQ-F Series CPU module (AC power supply, DC input type)	62
FX5U-32MT/ESS	MELSEC iQ-F Series CPU module (AC power supply, DC input type)	62, 85, 209
FX5U-64M□	MELSEC iQ-F Series FX5U CPU module	75
FX5U-64M□/□□	MELSEC iQ-F Series FX5U	58
FX5U-64M□/□□□	MELSEC iQ-F Series FX5U	58
FX5U-64MR/□	MELSEC iQ-F Series Relay output (FX5U CPU module)	78
FX5U-64MR/ES	MELSEC iQ-F Series CPU module (AC power supply, DC input type)	62, 85, 209
FX5U-64MT/□	MELSEC iQ-F Series Transistor output (FX5U/FX5uc CPU module)	79
FX5U-64MT/ES	MELSEC iQ-F Series CPU module (AC power supply, DC input type)	62, 85, 209
FX5U-64MT/ESS	MELSEC iQ-F Series CPU module (AC power supply, DC input type)	62, 85, 209
FX5U-80M□	MELSEC iQ-F Series FX5U CPU module	75
FX5U-80M□/□□	MELSEC iQ-F Series FX5U	58
FX5U-80M□/□□□	MELSEC iQ-F Series FX5U	58
FX5U-80MR/□	MELSEC iQ-F Series Relay output (FX5U CPU module)	78
FX5U-80MR/ES	MELSEC iQ-F Series CPU module (AC power supply, DC input type)	62, 85, 209

Model	Product name	Page
FX5U-80MT/□	MELSEC iQ-F Series Transistor output (FX5U/FX5uc CPU module)	79
FX5U-80MT/ES	MELSEC iQ-F Series CPU module (AC power supply, DC input type)	62, 85, 209
FX5U-80MT/ESS	MELSEC iQ-F Series CPU module (AC power supply, DC input type)	62, 85, 209
FX5UC-32MT/□	MELSEC iQ-F Series FX5U CPU module	76, 79
FX5UC-32MT/D	MELSEC iQ-F Series FX5uc	60, 68, 85, 209
FX5UC-32MT/DSS	MELSEC iQ-F Series FX5uc	60, 68, 85, 209
FX5UC-64MT/□	MELSEC iQ-F Series FX5U CPU module	76, 79
FX5UC-64MT/D	MELSEC iQ-F Series FX5uc	60, 68, 85, 209
FX5UC-64MT/DSS	MELSEC iQ-F Series FX5uc	60, 68, 85, 209
FX5UC-96MT/□	MELSEC iQ-F Series FX5U CPU module	76, 79
FX5UC-96MT/D	MELSEC iQ-F Series FX5uc	60, 68, 85, 209
FX5UC-96MT/DSS	MELSEC iQ-F Series FX5uc	60, 68, 85, 209
FX-I/O-CON2-S	MELSEC iQ-F Series Input/output connector	211
FX-I/O-CON2-SA	MELSEC iQ-F Series Input/output connector	211
FX-USB-AW	MELSEC-F Series Accessories	226
G		
GS2107	GOT SIMPLE Series	631
GS2110	GOT SIMPLE Series	631
GT□□-C30R2-6P	RS-232 cable	629
GT01-C□□□R4-25P	RS-422 Cable	614, 624, 629
GT01-C□□□R4-8P	RS-422 Cable	614, 624, 629
GT01-C□□□R4-25P	RS-422 Cable	614
GT01-C□□□R4-8P	RS-422 Cable	614
GT01-C30R2-25P	RS-232 Cable	614, 625, 630
GT01-C30R2-6P	RS-232 Cable	614, 625, 625
GT01-C30R2-9S	RS-232 Cable	614, 625, 630
GT01-RS4-M	Serial multi-drop connection unit	621, 626
GT05-□□PCO	Oil resistant cover	628
GT05-50STAND	Stand	623, 628
GT05-MEM-□□□MC	Memory card CF card	214, 220, 623, 628
GT05-MEM-□GC	Memory card CF card	623, 628
GT05-MEM-ADPC	Memory card adaptor	623, 628
GT09-C□□□R4-6C	RS-422 Cable	614, 624, 629
GT09-C□□□R4-6C	RS-422 Cable	614
GT09-C30R2-□P	RS-232 cable	630
GT09-C30R2-25P	RS-232 Cable	614, 625
GT09-C30R2-9P	RS-232 Cable	614, 625
GT09-C30USB-5P	USB Cable	614, 625

Model	Product name	Page
GT10-□□PSCB	Protective sheet	628
GT10-□□PSCW	Protective sheet	628
GT10-□□PSGB	Protective sheet	628
GT10-□□PSGW	Protective sheet	628
GT10-20PCO	Protective cover for oil	623
GT1030	GOT1000 GT10 model	596, 601, 602, 603, 626
GT1030-HB□(W)(2)	GOT1000 GT10 model	605, 607
GT10-30PCO	Oil resistant cover	628
GT105□	GOT1000 GT10 model	600, 602, 603, 626
GT105□-Q□BD	GOT1000 GT10 model	605, 607
GT1050	GOT1000 GT10 model	596, 600, 626
GT10-50FMB	GT10 memory board	627
GT1055	GOT1000 GT10 model	596, 600, 626
GT10-9PT5S	Connector conversion adapter	626
GT10-C□□□R4-25P	RS-422 cable	624, 629
GT10-C□□□R4-8P	RS-422 cable	624, 629
GT10-C□□□R4-8PC	RS-422 cable	624, 629
GT10-C02H-6PT9P	Barcode reader connection cable RS-232 cable	625, 630
GT10-C02H-9SC	RS-422 cable	624, 629
GT10-C10EXUSB-5S	Extended USB waterproof cable	625, 630
GT10-C10R4-8PL	RS-422 cable	624, 629
GT10-C30R2-6P	RS-232 cable	625
GT10-LDR	GT10 memory loader	627
GT10-RS2TUSB-5S	USB cable	630
GT11-50BAT	Battery	623, 628
GT11-50UCOV	USB protective cover	628
GT11H-C□□□	External connection cable	630
GT11H-C□□□-32P	External connection cable	630
GT11H-C□□□-37P	External connection cable	630
GT11H-C15R2-6P	FA device connection relay cable	630
GT11H-C15R4-□P	FA device connection relay cable	630
GT11H-C30R2-6P	RS-232 cable	629
GT11H-CCL	CC-Link interface unit	626
GT11H-CNB-37S	Connector conversion box for Handy GOT	630
GT11HS-CCL	CC-Link interface unit	626
GT145□	GOT1000 GT14 model	602, 626
GT145□-Q□BDE	GOT1000 GT14 model	605, 607
GT1450	GOT1000 GT14 model	596, 603, 626

Model	Product name	Page
GT14-50UCOV	USB protective cover	628
GT1455	GOT1000 GT14 model	596, 599, 603, 626
GT14-C10EXUSB-4S	Extension USB waterproof cable	630
GT14H-50ATT	Handy GOT wall-mounting fixture	628
GT14-RS2T4-9P	RS-232/485 Signal Conversion Adapter	626
GT14-VNCSKEY	VNC® server function license	627
GT15-□□STAND	Stand	623, 628
GT15-50ATT-□□	Attachment	623
GT15-50ATT-85	Attachment	628
GT15-50ATT-95W	Attachment	628
GT15-60ATT-□□	Attachment	623
GT15-60ATT-77	Attachment	628
GT15-60ATT-87	Attachment	628
GT15-60ATT-96	Attachment	628
GT15-60ATT-97	Attachment	628
GT15-70ATT-□□	Attachment	623
GT15-70ATT-87	Attachment	628
GT15-70ATT-98	Attachment	628
GT15-75QBUS2L	Q bus connection unit	621
GT15-75QBUSL	Q bus connection unit	621
GT15-A1SC□□B	Bus connection cable for QnA/ACPU/motion controller CPU (A series)	629
GT15-A1SC□□NB	Bus connection cable for QnA/ACPU/motion controller CPU (A series)	629
GT15-A370C□□B	Bus connection cable for QnA/ACPU/motion controller CPU (A series)	629
GT15-A370C□□B-S1	Bus connection cable for QnA/ACPU/motion controller CPU (A series)	629
GT15-AC□□B	Bus connection cable for QnA/ACPU/motion controller CPU (A series)	629
GT15-AFC	Ferrite core set for A bus cable (two-pack)	629
GT15-BAT	Battery	628
GT15-C□□□BS	Bus connection cable for QnA/ACPU/motion controller CPU (A series)	629
GT15-C□□□EXSS-1	Bus connection cable for QnA/ACPU/motion controller CPU (A series)	629
GT15-C□□□BS	Bus connection cable for QnA/ACPU/motion controller CPU (A series)	629
GT15-C□□□NB	Bus connection cable for QnA/ACPU/motion controller CPU (A series)	629
GT15-C03HTB	Conversion cable for connecting external I/O unit	625, 630
GT15-C50VG	Analog RGB cable	625, 630
GT15-CFCD	CF card unit	627
GT15-CFEX-C08SET	CF card extension unit	603, 627
GT15-DIO	External I/O unit	622, 627
GT15-DIOR	External I/O unit	622, 627
GT15-EXCNB	Buffer circuit cable	629

Index

Model	Product name	Page
GT15-J2C10B	Bus connection cable for QnA/ACPU/motion controller CPU (A series)	629
GT15-J61BT13	CC-Link communication unit	621, 626
GT15-J71BR13	MELSECNET/H communication unit	621, 626
GT15-J71GF13-T2	CC-Link IE Field Network communication unit	621, 626
GT15-J71GP23-SX	CC-Link IE Controller Network communication unit	621, 626
GT15-J71LP23-25	MELSECNET/H communication unit	621, 626
GT15-PRN	Printer unit	622, 627
GT15-QBUS	Q bus connection unit	621, 626
GT15-QBUS2	Q bus connection unit	621, 626
GT15-QC□□□B	QCPU bus connection cable	624
GT15-QC□□□BS	QCPU bus connection cable	624, 629
GT15-QC□□B	Bus connection cable for QCPU (Q mode)	629
GT15-QFC	Ferrite core set for Q bus cable (two-pack)	624, 629
GT15-RS2-9P	Serial communication unit	621, 626
GT15-RS2T4-25P	RS-422 conversion unit	626
GT15-RS2T4-9P	RS-422 conversion unit	626
GT15-RS4-9S	Serial communication unit	621, 626
GT15-RS4-TE	Serial communication unit	621, 626
GT15-SGTKEY-U	License key for GT SoftGOT1000	627
GT15-SOUT	Sound output unit	622, 627
GT16-□□PSCB	Protective sheet	627
GT16-□□PSCB-012	Protective sheet	627
GT16-□□PSCW	Protective sheet	627
GT16-□□PSGB	Protective sheet	627
GT16-□□PSGW	Protective sheet	627
GT16-□□SLTT	Backlight	627
GT16-□□VLTN	Backlight	627
GT16-□□VLTT	Backlight	627
GT16-50PCO	Oil resistant cover	628
GT16-50UCOV	USB protective cover	628
GT1655	GOT1000 GT16 model	596, 598, 602, 603, 626
GT1655-VTBD	GOT1000 GT16 model	604, 606
GT166□	GOT1000 GT16 model	598, 602, 603, 626
GT1662	GOT1000 GT16 model	596, 598, 626
GT1662-VNB□	GOT1000 GT16 model	604, 606
GT1665HS	GOT1000 GT16 model	596, 598, 626
GT1665HS-VTBD	GOT1000 GT16 model	604, 606
GT1665M	GOT1000 GT16 model	596, 597, 598, 626

Model	Product name	Page
GT1665M-STB□	GOT1000 GT16 model	604, 606
GT167□	GOT1000 GT16 model	598, 602, 603, 626
GT167□-VNB□	GOT1000 GT16 model	604, 606
GT16-70VLTTA	Backlight	627
GT1672	GOT1000 GT16 model	596, 597, 598, 627
GT1675	GOT1000 GT16 model	596, 597, 598, 626
GT1675M	GOT1000 GT16 model	596, 597, 598, 626
GT1675M-STB□	GOT1000 GT16 model	604, 606
GT1675M-VTB□	GOT1000 GT16 model	604, 606
GT1685	GOT1000 GT16 model	598, 602, 603, 626
GT1685M	GOT1000 GT16 model	596, 597, 598, 626
GT1685M-STB□	GOT1000 GT16 model	604, 606
GT16-90XLTT	Backlight	627
GT1695	GOT1000 GT16 model	598, 602, 603, 626
GT1695M	GOT1000 GT16 model	596, 597, 598, 626
GT1695M-XTB□	GOT1000 GT16 model	604, 606
GT16-C02R4-□S	RS-422 conversion cable	629
GT16H-60ESCOV	Emergency stop switch guard	628
GT16H-60PSC	Protective sheet	627
GT16H-C□□□-32P	External connection cable	630
GT16H-C□□□-42P	External connection cable	630
GT16H-CNB-42S	Connector conversion box for Handy GOT	630
GT16-MESB	Optional function board	627
GT16M-MMR	Multimedia unit	627
GT16M-R2	RGB input unit	627
GT16M-ROUT	RGB output unit	627
GT16M-V4	Video input unit	627
GT16M-V4R1	Video/RGB input unit	627
GT16-PCRAKEY	Personal computer remote operation function (Ethernet) license	627
GT16-UCOV	USB protective cover	628
GT16-VNCSKEY	VNC® server function license	627
GT20-□□PCO	Protective cover for oil	623
GT21□□	GOT2000 GT21 model	580
GT2103	GOT2000 GT21 model	569, 588, 589, 592, 595, 620
GT21-03PSCC-UC	Protective sheet	623, 623
GT21-03SDCD	SD memory card unit	622
GT2104	GOT2000 GT21 model	569, 588, 589, 592, 595, 620
GT21-04RATT-40	Attachment	623

Model	Product name	Page
GT21-04RPCO	Protective cover for oil	623
GT21-04RPSCC-UC	Protective sheet	623
GT21-C□□□R4-25P5	RS-422 cable	624
GT21-C□□□R4-8P5	RS-422 cable	624
GT23□□	GOT2000 GT23 model	580
GT2308	GOT2000 GT23model	568, 586, 587, 592, 595, 620
GT2310	GOT2000 GT23model	568, 586, 587, 592, 595, 620
GT25□□	GOT2000 GT25 model	580
GT25-□□FIT-EXS	Special fitting	623
GT25-□□PSCC	Protective sheet	623
GT25-□□PSCC-UC	Protective sheet	623
GT25-□□PSGC	Protective sheet	623
GT25-05PCO	Protective cover for oil	623
GT25-05UCOV	USB environmental protection cover	623
GT2508	GOT2000 GT25model	569, 585, 590, 594, 620, 621
GT2508F	GOT2000 GT25model	569, 585, 591, 594, 620
GT2510	GOT2000 GT25model	569, 584, 585, 590, 594, 620, 621
GT2510F	GOT2000 GT25model	569, 584, 585, 591, 594, 620
GT2512	GOT2000 GT25model	568, 584, 585, 590, 594, 620, 621
GT2512F	GOT2000 GT25model	568, 584, 585, 591, 594, 620
GT25F-□□ESGS	Environmental protection sheet	623
GT25-FNADP	Field network adapter unit	621
GT25-J71E71-100	Ethernet communication unit	621
GT25-MESIFKEY-□	MES I/F Function License	622
GT25-PCRAKEY-□	Remote Personal Computer Operation Function (Ethernet) License	622
GT25-UCOV	USB environmental protection cover	623
GT25-VNCSKEY-□	VNC Server Function License	622
GT25-WEBSKEY-□	GOT Mobile Function License	622
GT25-WLAN	Wireless LAN communication unit	621
GT27□□	GOT2000 GT27 model	580
GT2705	GOT2000 GT27model	569, 583, 590, 593, 620, 621
GT2708	GOT2000 GT27model	569, 583, 590, 593, 620, 621
GT2710	GOT2000 GT27model	569, 582, 583, 590, 593, 620, 621
GT2712	GOT2000 GT27model	568, 582, 583, 590, 593, 620, 621
GT2715	GOT2000 GT27model	568, 582, 583, 590, 593, 620, 621
GT27-15PSCC	Protective sheet	623
GT27-15PSGC	Protective sheet	623
GT27-MMR-Z	Multimedia unit	622

Model	Product name	Page
GT27-R2	RGB input unit	622
GT27-R2-Z	RGB input unit	622
GT27-ROUT	RGB output unit	622
GT27-ROUT-Z	RGB output unit	622
GT27-SGTKEY-U	License key for GT SoftGOT2000	622
GT27-V4R1-Z	Video/RGB input unit	622
GT27-V4-Z	Video input unit	622
H		
H-6FH45XX/M/C	Industrial Robot	652
HG-AK□□36	HG-AK Series servo motor	366, 367, 377
HG-AK□□36B	HG-AK Series servo motor	366, 367, 377
HG-AK□□36B-S100	HG-AK Series servo motor	377
HG-AK□□36-S100	HG-AK Series servo motor	377
HG-JR□□□1	HG-JR Series servo motor	354, 355, 373, 374
HG-JR□□□14	HG-JR Series servo motor	356, 357, 373, 374
HG-JR□□□14B	HG-JR Series servo motor	356, 357, 373
HG-JR□□□14MB	HG-JR Series servo motor	361
HG-JR□□□1B	HG-JR Series servo motor	354, 355, 373
HG-JR□□□1M	HG-JR Series servo motor	358, 359, 373, 374
HG-JR□□□1M4	HG-JR Series servo motor	360, 361, 373, 374
HG-JR□□□1M4B	HG-JR Series servo motor	360, 373
HG-JR□□□1MB	HG-JR Series servo motor	358, 359, 373
HG-JR□□□1	HG-JR Series servo motor	354, 355, 373
HG-JR□□□14	HG-JR Series servo motor	356, 357, 373
HG-JR□□□14B	HG-JR Series servo motor	356, 357, 373
HG-JR□□□14MB	HG-JR Series servo motor	361
HG-JR□□□1B	HG-JR Series servo motor	354, 355, 373
HG-JR□□□1M	HG-JR Series servo motor	358, 359, 373
HG-JR□□□1M4	HG-JR Series servo motor	360, 361, 373
HG-JR□□□1M4B	HG-JR Series servo motor	360, 373
HG-JR□□□1MB	HG-JR Series servo motor	358, 359, 373
HG-JR□□□3	HG-JR Series servo motor	350, 351, 371, 372
HG-JR□□□34	HG-JR Series servo motor	352, 353, 371, 372
HG-JR□□□34B	HG-JR Series servo motor	352, 353, 371, 372
HG-JR□□□3B	HG-JR Series servo motor	350, 351, 371, 372
HG-JR□□3	HG-JR Series servo motor	350, 351
HG-JR□□34	HG-JR Series servo motor	352, 353
HG-JR□□34B	HG-JR Series servo motor	352, 353

Index

Model	Product name	Page
HG-JR□3B	HG-JR Series servo motor	350, 351
HG-KN□3	HG-SN Series Servo motor	432, 433
HG-KN□3B	HG-SN Series Servo motor	432, 433
HG-KN□3BJ	HG-KN Series Servo motor	427, 428, 432, 433, 434
HG-KN□3J	HG-KN Series Servo motor	427, 428, 432, 433, 434
HG-KR□□3	HG-KR Series servo motor	340, 341, 369
HG-KR□□3B	HG-KR Series servo motor	340, 341, 369
HG-MR□□3	HG-MR Series servo motor	342, 343, 369
HG-MR□□3B	HG-MR Series servo motor	342, 343, 369
HG-RR□□3	HG-RR Series servo motor	362, 363, 375
HG-RR□□3B	HG-RR Series servo motor	362, 363, 375
HG-SN□□2BJ	HG-SN Series Servo motor	429, 430, 435
HG-SN□□2J	HG-SN Series Servo motor	429, 430, 435
HG-SN□2BJ	HG-SN Series Servo motor	429, 430, 435
HG-SN□2J	HG-SN Series Servo motor	429, 430, 435
HG-SR□□1	HG-SR Series servo motor	344, 345, 370
HG-SR□□1B	HG-SR Series servo motor	344, 345, 370
HG-SR□□2	HG-SR Series servo motor	346, 347, 370
HG-SR□□24	HG-SR Series servo motor	348, 349, 370
HG-SR□□24B	HG-SR Series servo motor	348, 349, 370
HG-SR□□2B	HG-SR Series servo motor	346, 347, 370
HG-UR□□2	HG-UR Series servo motor	364, 365, 376
HG-UR□□2B	HG-UR Series servo motor	364, 365, 376
HG-UR□2	HG-UR Series servo motor	364, 365, 376
HG-UR□2B	HG-UR Series servo motor	384, 365, 376
K		
KB-D	Residual Current Circuit Breakers Isolating switch	704, 705, 843
L		
L02CPU	MELSEC-L Series CPU Module	122, 132, 133, 222
L02CPU-P	MELSEC-L Series CPU Module	122, 132, 133, 222
L02CPU-P-SET	MELSEC-L Series CPU packages	222
L02CPU-SET	MELSEC-L Series CPU packages	222
L02SCPU	MELSEC-L Series CPU Module	122, 132, 133, 222
L02SCPU-P	MELSEC-L Series CPU Module	122, 132, 133, 222
L06CPU	MELSEC-L Series CPU Module	122, 132, 133, 222
L06CPU-P	MELSEC-L Series CPU Module	122, 132, 133, 222
L06CPU-P-SET	MELSEC-L Series CPU packages	222
L06CPU-SET	MELSEC-L Series CPU packages	222

Model	Product name	Page
L1MEM-□GBSD	Memory card SD card	628
L26CPU	MELSEC-L Series CPU Module	122, 132, 133, 222
L26CPU-BT	MELSEC-L Series CPU Module	122, 132, 133, 222, 230
L26CPU-BT-SET	MELSEC-L Series CPU packages	222
L26CPU-P	MELSEC-L Series CPU Module	122, 132, 133, 222
L26CPU-PBT	MELSEC-L Series CPU Module	122, 132, 133, 222, 230
L26CPU-PBT-SET	MELSEC-L Series CPU packages	222
L26CPU-P-SET	MELSEC-L Series CPU packages	222
L26CPU-SET	MELSEC-L Series CPU packages	222
L60AD2DA2	MELSEC-L Series Voltage, current I/O	126, 224
L60AD4	MELSEC-L Series Voltage, current input	126, 224
L60AD4-2GH	MELSEC-L Series Voltage, current input	126, 224
L60ADIL8	MELSEC-L Series Current input	126, 224
L60ADVL8	MELSEC-L Series Voltage input	126, 224
L60DA4	MELSEC-L Series Voltage, current output	126, 224
L60DAIL8	MELSEC-L Series Current input	126, 224
L60DAVL8	MELSEC-L Series Voltage input	126, 224
L60MD4-G	MELSEC-L Series Multiple Input (voltage/current/temperature) Module	126, 224
L60RD8	MELSEC-L Series Temperature input	127, 224
L60TCRT4	MELSEC-L Series Temperature control	127, 224
L60TCRT4BW	MELSEC-L Series Temperature control	127, 224
L60TCTT4	MELSEC-L Series Temperature control	127, 224
L60TCTT4BW	MELSEC-L Series Temperature control	127, 224
L61P	MELSEC-L Series Power Supply Module	123, 223
L63P	MELSEC-L Series Power Supply Module	123, 223
L63SP	MELSEC-L Series Power Supply Module	123, 223
L6ADP-R2	MELSEC-L Series RS-232 adapter	123, 222
L6ADP-R4	MELSEC-L Series RS-422/485 adapter	123, 222
L6DSPU	MELSEC-L Series CPU options	222
L6EC-ET	MELSEC-L Series END cover with error terminal	222
L6EXB	MELSEC-L Series Branch module	123, 223
L6EXE	MELSEC-L Series Extension module	123, 223
L6TE-18S	MELSEC-L Series Spring clamp terminal block	223
LC06E	MELSEC-L Series Branch/Extension module	223
LC10E	MELSEC-L Series Branch/Extension module	223
LC30E	MELSEC-L Series Branch/Extension module	223
LD40PD01	MELSEC-L Series Flexible High-Speed I/O Control Module	128, 224
LD62	MELSEC-L Series High-Speed Counter Module	128, 224

Model	Product name	Page
LD62D	MELSEC-L Series High-Speed Counter Module	128, 224
LD75D1	MELSEC-L Series Positioning Module	127, 224
LD75D2	MELSEC-L Series Positioning Module	127, 224
LD75D4	MELSEC-L Series Positioning Module	127, 224
LD75P1	MELSEC-L Series Positioning Module	127, 224
LD75P2	MELSEC-L Series Positioning Module	127, 224
LD75P4	MELSEC-L Series Positioning Module	127, 224
LD77MS16	MELSEC-L Series Simple Motion Module	127, 224, 241, 256, 258 to 261
LD77MS2	MELSEC-L Series Simple Motion Module	127, 224, 241, 256, 258 to 261
LD77MS4	MELSEC-L Series Simple Motion Module	127, 224, 241, 256, 258 to 261
LG69	MELSEC-L Series Space module	223, 239
LH42C4NT1P	MELSEC-L Series I/O Combined Module	125, 223, 125, 223
LJ51AW12AL	MELSEC-L Series AnyWireASLINK Master Module	130, 224
LJ61BT11	MELSEC-L Series CC-Link Master/Local Module	129, 224, 230
LJ61CL12	MELSEC-L Series CC-Link/LT Master Module	130, 224, 233
LJ71C24	MELSEC-L Series Serial Communication Module	131, 224
LJ71C24-R2	MELSEC-L Series Serial Communication Module	131, 224
LJ71E71-100	MELSEC-L Series Ethernet Interface Module	129, 224
LJ71GF11-T2	MELSEC-L Series CC-Link IE Field Network Module	129, 224, 228
LJ72GF15-T2	MELSEC-L Series CC-Link IE Field Network Module	129, 224, 228
LJ72MS15	MELSEC-L Series SSCNET III/H Head Module	131, 224
LM-FP2B-06M-1SS0	LM-F Series Linear servo motor Primary side	384, 385, 392
LM-FP2D-12M-1SS0	LM-F Series Linear servo motor Primary side	384, 385, 392
LM-FP2F-18M-1SS0	LM-F Series Linear servo motor Primary side	384, 385, 392
LM-FP4B-12M-1SS0	LM-F Series Linear servo motor Primary side	384, 385, 392
LM-FP4D-24M-1SS0	LM-F Series Linear servo motor Primary side	384, 385, 392
LM-FP4F-36M-1SS0	LM-F Series Linear servo motor Primary side	384, 385, 392
LM-FP4H-48M-1SS0	LM-F Series Linear servo motor Primary side	384, 385, 392
LM-FP5H-60M-1SS0	LM-F Series Linear servo motor Primary side	384, 385, 392
LM-FS20-480-1SS0	LM-F Series Linear servo motor Secondary side	384, 393
LM-FS20-576-1SS0	LM-F Series Linear servo motor Secondary side	384, 393
LM-FS40-480-1SS0	LM-F Series Linear servo motor Secondary side	384, 393
LM-FS40-576-1SS0	LM-F Series Linear servo motor Secondary side	384, 393
LM-FS50-480-1SS0	LM-F Series Linear servo motor Secondary side	384, 393
LM-FS50-576-1SS0	LM-F Series Linear servo motor Secondary side	384, 393
LM-H3P2A-07P-BSS0	LM-H3 Series Linear servo motor Primary side	382, 383, 390
LM-H3P3A-12P-CSS0	LM-H3 Series Linear servo motor Primary side	382, 383, 390
LM-H3P3B-24P-CSS0	LM-H3 Series Linear servo motor Primary side	382, 383, 390

Model	Product name	Page
LM-H3P3C-36P-CSS0	LM-H3 Series Linear servo motor Primary side	382, 383, 390
LM-H3P3D-48P-CSS0	LM-H3 Series Linear servo motor Primary side	382, 383, 390
LM-H3P7A-24P-ASS0	LM-H3 Series Linear servo motor Primary side	382, 383, 390
LM-H3P7B-48P-ASS0	LM-H3 Series Linear servo motor Primary side	382, 383, 390
LM-H3P7C-72P-ASS0	LM-H3 Series Linear servo motor Primary side	382, 383, 390
LM-H3P7D-96P-ASS0	LM-H3 Series Linear servo motor Primary side	382, 383, 390
LM-H3S20-288-BSS0	LM-H3 Series Linear servo motor Secondary side	382, 391
LM-H3S20-384-BSS0	LM-H3 Series Linear servo motor Secondary side	382, 391
LM-H3S20-480-BSS0	LM-H3 Series Linear servo motor Secondary side	382, 391
LM-H3S20-768-BSS0	LM-H3 Series Linear servo motor Secondary side	382, 391
LM-H3S30-288-CSS0	LM-H3 Series Linear servo motor Secondary side	382, 391
LM-H3S30-384-CSS0	LM-H3 Series Linear servo motor Secondary side	382, 391
LM-H3S30-480-CSS0	LM-H3 Series Linear servo motor Secondary side	382, 391
LM-H3S30-768-CSS0	LM-H3 Series Linear servo motor Secondary side	382, 391
LM-H3S70-288-ASS0	LM-H3 Series Linear servo motor Secondary side	382, 391
LM-H3S70-384-ASS0	LM-H3 Series Linear servo motor Secondary side	382, 391
LM-H3S70-480-ASS0	LM-H3 Series Linear servo motor Secondary side	382, 391
LM-H3S70-768-ASS0	LM-H3 Series Linear servo motor Secondary side	382, 391
LM-K2P1A-01M-2SS1	LM-K2 Series Linear servo motor Primary side	386, 387, 394
LM-K2P1C-03M-2SS1	LM-K2 Series Linear servo motor Primary side	386, 387, 394
LM-K2P2A-02M-1SS1	LM-K2 Series Linear servo motor Primary side	386, 387, 394
LM-K2P2C-07M-1SS1	LM-K2 Series Linear servo motor Primary side	386, 387, 394
LM-K2P2E-12M-1SS1	LM-K2 Series Linear servo motor Primary side	386, 387, 394
LM-K2P3C-14M-1SS1	LM-K2 Series Linear servo motor Primary side	386, 387, 394
LM-K2P3E-24M-1SS1	LM-K2 Series Linear servo motor Primary side	386, 387, 394
LM-K2S10-288-2SS1	LM-K2 Series Linear servo motor Secondary side	386, 395
LM-K2S10-384-2SS1	LM-K2 Series Linear servo motor Secondary side	386, 395
LM-K2S10-480-2SS1	LM-K2 Series Linear servo motor Secondary side	386, 395
LM-K2S10-768-2SS1	LM-K2 Series Linear servo motor Secondary side	386, 395
LM-K2S20-288-1SS1	LM-K2 Series Linear servo motor Secondary side	386, 395
LM-K2S20-384-1SS1	LM-K2 Series Linear servo motor Secondary side	386, 395
LM-K2S20-480-1SS1	LM-K2 Series Linear servo motor Secondary side	386, 395
LM-K2S20-768-1SS1	LM-K2 Series Linear servo motor Secondary side	386, 395
LM-K2S30-288-1SS1	LM-K2 Series Linear servo motor Secondary side	386, 395
LM-K2S30-384-1SS1	LM-K2 Series Linear servo motor Secondary side	386, 395
LM-K2S30-480-1SS1	LM-K2 Series Linear servo motor Secondary side	386, 395
LM-K2S30-768-1SS1	LM-K2 Series Linear servo motor Secondary side	386, 395
LM-U2P2B-40M-2SS0	LM-U2 Series Linear servo motor Primary side	388, 389, 396

Index

Model	Product name	Page
LM-U2P2C-60M-2SS0	LM-U2 Series Linear servo motor Primary side	388, 389, 396
LM-U2P2D-80M-2SS0	LM-U2 Series Linear servo motor Primary side	388, 389, 396
LM-U2PAB-05M-0SS0	LM-U2 Series Linear servo motor Primary side	388, 389, 396
LM-U2PAD-10M-0SS0	LM-U2 Series Linear servo motor Primary side	388, 389, 396
LM-U2PAF-15M-0SS0	LM-U2 Series Linear servo motor Primary side	388, 389, 396
LM-U2PBB-07M-1SS0	LM-U2 Series Linear servo motor Primary side	388, 389, 396
LM-U2PBD-15M-1SS0	LM-U2 Series Linear servo motor Primary side	388, 389, 396
LM-U2PBF-22M-1SS0	LM-U2 Series Linear servo motor Primary side	388, 389, 396
LM-U2S20-300-2SS0	LM-U2 Series Linear servo motor Secondary side	388, 397
LM-U2S20-480-2SS0	LM-U2 Series Linear servo motor Secondary side	388, 397
LM-U2SA0-240-0SS0	LM-U2 Series Linear servo motor Secondary side	388, 397
LM-U2SA0-300-0SS0	LM-U2 Series Linear servo motor Secondary side	388, 397
LM-U2SA0-420-0SS0	LM-U2 Series Linear servo motor Secondary side	388, 397
LM-U2SB0-240-1SS0	LM-U2 Series Linear servo motor Secondary side	388, 397
LM-U2SB0-300-1SS0	LM-U2 Series Linear servo motor Secondary side	388, 397
LM-U2SB0-420-1SS0	LM-U2 Series Linear servo motor Secondary side	388, 397
LX10	MELSEC-L Series Input Module	124, 223
LX28	MELSEC-L Series Input Module	124, 223
LX40C6	MELSEC-L Series Input Module	124, 223
LX41C4	MELSEC-L Series Input Module	124, 223
LX42C4	MELSEC-L Series Input Module	124, 223
LY10R2	MELSEC-L Series Output Module	124, 223
LY18R2A	MELSEC-L Series Output Module	124, 223
LY20S6	MELSEC-L Series Output Module	124, 223
LY28S1A	MELSEC-L Series Output Module	124, 223
LY40NT5P	MELSEC-L Series Output Module	124, 223
LY41NT1P	MELSEC-L Series Output Module	124, 223
LY42NT1P	MELSEC-L Series Output Module	124, 223
M		
ME-0000BU-SS96	ME96 Super-S Series	918
ME-0000MT-SS96	ME96 Super-S Series	910, 918
ME-0040C-SS96	ME96 Super-S Series	910, 916, 918
ME-0052-SS96	ME96 Super-S Series	910, 916, 918
ME-4210-SS96	ME96 Super-S Series	910, 916, 918
ME96SSEA-MB	ME96 Super-S Series	910, 912
ME96SSHA-MB	ME96 Super-S Series	910, 912, 916
ME96SSRA-MB	ME96 Super-S Series	910, 912
MES3-255C-DM-EN	EcoWebServer III	896, 957, 963 to 966

Model	Product name	Page
MES3-255C-EN	EcoWebServer III	956, 957, 963 to 966
MES3-SW1-PR-FR	EcoWebServer III	967
MMP-T32	Motor Circuit Breakers MMP-T series	895
MMP-T32BC	Motor Circuit Breakers MMP-T series	895, 896
MR-CR55K	Converter unit MELSERVO-J4	302, 309
MR-CR55K4	Converter unit MELSERVO-J4	302, 309
MR-J4-□□□A	AC Servo MELSERVO-J4 General-purpose Interface	319, 320, 332
MR-J4-□□□A4	AC Servo MELSERVO-J4 General-purpose Interface	323, 324, 328, 329, 330, 331, 332
MR-J4-□□□A4-RJ	AC Servo MELSERVO-J4 General-purpose Interface	323, 324, 328, 329, 330, 331, 332
MR-J4-□□□A-RJ	AC Servo MELSERVO-J4 General-purpose Interface	319, 320, 332
MR-J4-□□□B	AC Servo MELSERVO-J4 SSCNET III/H Interface	296, 297, 307
MR-J4-□□□B4	AC Servo MELSERVO-J4 SSCNET III/H Interface	303, 304, 305, 306, 307
MR-J4-□□□B4-RJ	AC Servo MELSERVO-J4 SSCNET III/H Interface	303, 304, 305, 306, 307
MR-J4-□□□B-RJ	AC Servo MELSERVO-J4 SSCNET III/H Interface	296, 297, 307
MR-J4-□□□GF	AC Servo MELSERVO-J4 CC-Link IE Field Network Interface	287, 288, 291, 293, 294
MR-J4-□□□GF4	AC Servo MELSERVO-J4 CC-Link IE Field Network Interface	289, 292
MR-J4-□□□GF4-RJ	AC Servo MELSERVO-J4 CC-Link IE Field Network Interface	289, 292
MR-J4-□□□GF-RJ	AC Servo MELSERVO-J4 CC-Link IE Field Network Interface	287, 288, 291, 293, 294
MR-J4-□□□A	AC Servo MELSERVO-J4 General-purpose Interface	319, 320
MR-J4-□□□A1	AC Servo MELSERVO-J4 General-purpose Interface	319, 320
MR-J4-□□□A1-RJ	AC Servo MELSERVO-J4 General-purpose Interface	319, 320
MR-J4-□□□A4	AC Servo MELSERVO-J4 General-purpose Interface	323, 324, 328, 329
MR-J4-□□□A4-RJ	AC Servo MELSERVO-J4 General-purpose Interface	323, 324, 328, 329
MR-J4-□□□A-RJ	AC Servo MELSERVO-J4 General-purpose Interface	319, 320
MR-J4-□□□B	AC Servo MELSERVO-J4 SSCNET III/H Interface	296, 297
MR-J4-□□□B1	AC Servo MELSERVO-J4 SSCNET III/H Interface	296, 297
MR-J4-□□□B1-RJ	AC Servo MELSERVO-J4 SSCNET III/H Interface	296, 297
MR-J4-□□□B4	AC Servo MELSERVO-J4 SSCNET III/H Interface	299, 303, 304
MR-J4-□□□B4-RJ	AC Servo MELSERVO-J4 SSCNET III/H Interface	299, 303, 304
MR-J4-□□□B-RJ	AC Servo MELSERVO-J4 SSCNET III/H Interface	296, 297
MR-J4-□□□GF	AC Servo MELSERVO-J4 CC-Link IE Field Network Interface	287, 288, 291
MR-J4-□□□GF4	AC Servo MELSERVO-J4 CC-Link IE Field Network Interface	289, 292
MR-J4-□□□GF4-RJ	AC Servo MELSERVO-J4 CC-Link IE Field Network Interface	289, 292
MR-J4-□□□GF-RJ	AC Servo MELSERVO-J4 CC-Link IE Field Network Interface	287, 288, 291
MR-J4-03A6	AC Servo MELSERVO-J4 General-purpose Interface	327, 334
MR-J4-03A6-RJ	AC Servo MELSERVO-J4 General-purpose Interface	327, 334
MR-J4-DU□□□A	Drive unit MELSERVO-J4 General-purpose Interface	321, 322, 333
MR-J4-DU□□□A4	Drive unit MELSERVO-J4 General-purpose Interface	325, 326, 333

Model	Product name	Page
MR-J4-DU□□□A4-RJ	Drive unit MELSERVO-J4 General-purpose Interface	325, 326, 333
MR-J4-DU□□□A-RJ	Drive unit MELSERVO-J4 General-purpose Interface	321, 322, 333
MR-J4-DU□□□B	Drive unit MELSERVO-J4 SSCNET III/H Interface	308
MR-J4-DU□□□B4	Drive unit MELSERVO-J4 SSCNET III/H Interface	301, 308
MR-J4-DU□□□B4-RJ	Drive unit MELSERVO-J4 SSCNET III/H Interface	301, 308
MR-J4-DU□□□B-RJ	Drive unit MELSERVO-J4 SSCNET III/H Interface	308
MR-J4-DU□□□B	Drive unit MELSERVO-J4 SSCNET III/H Interface	298
MR-J4-DU□□□B-RJ	Drive unit MELSERVO-J4 SSCNET III/H Interface	298
MR-J4W2-□□□B	2-axis MELSERVO-J4 SSCNET III/H Interface	311, 312, 316
MR-J4W2-0303B6	2-axis MELSERVO-J4 SSCNET III/H Interface	315, 317
MR-J4W3-□□□B	3-axis MELSERVO-J5 SSCNET III/H Interface	313, 314, 317
MR-JE-□□□A	AC Servo MELSERVO-JE General-purpose Interface	424, 425
MR-JE-□□□B	AC Servo MELSERVO-JE SSCNET III/H Interface	421, 422
MR-JE-□□□A	AC Servo MELSERVO-JE General-purpose Interface	424, 425
MR-JE-□□□B	AC Servo MELSERVO-JE SSCNET III/H Interface	421, 422
MS-□	Magnetic Starters Enclosed NonReversing	861, 862
MS-□KPK	Magnetic Starters Enclosed NonReversing	861, 862
MS-□PM	Magnetic Starters Enclosed NonReversing	861
MS-□QM	Magnetic Starters Enclosed NonReversing	861
MS-2xN□□□	Magnetic Starters Enclosed Reversing	872
MS-2xT□□	Magnetic Starters Enclosed Reversing	871, 873
MS-N□□□	Magnetic Starters Enclosed Non-Reversing	872, 873, 874
MSO(D)-2xT□□	Magnetic Starters Open type NonReversing	873
MSO(D)-T□□	Magnetic Starters Open type NonReversing	873
MSO-□	Magnetic Starters Open type NonReversing	861, 862
MSO-□BC	Magnetic Starters Open type NonReversing	861, 862
MSO-□CW	Magnetic Starters Open type NonReversing	861, 862
MSO-□DL	Magnetic Starters Open type NonReversing	861
MSO-□FS	Magnetic Starters Open type NonReversing	861, 862
MSO-□FSKPK	Magnetic Starters Open type NonReversing	861, 862
MSO-□KF	Magnetic Starters Open type NonReversing	861, 862
MSO-□KPK	Magnetic Starters Open type NonReversing	861, 862
MSO-□KPSR	Magnetic Starters Open type NonReversing	861, 862
MSO-□QM	Magnetic Starters Open type NonReversing	861
MSO-□SA	Magnetic Starters Open type NonReversing	861, 862
MSO-□SR	Magnetic Starters Open type NonReversing	861, 862
MSO-□YS	Magnetic Starters Open type NonReversing	861, 862
MSO-2xN□□□	Magnetic Starters Open type Reversing	872, 876

Model	Product name	Page
MSO-2xN□□□KPK	Magnetic Starters Open type Reversing	872
MSO-2xT□□	Magnetic Starters Open type Reversing	871, 873
MSO-2xT□□KPK	Magnetic Starters Open type Reversing	871
MSOD-□	Magnetic Starters Open type NonReversing	861, 862
MSOD-□BC	Magnetic Starters Open type NonReversing	861, 862
MSOD-□FS	Magnetic Starters Open type NonReversing	861, 862
MSOD-□FSKPK	Magnetic Starters Open type NonReversing	861, 862
MSOD-□KPK	Magnetic Starters Open type NonReversing	861, 862
MSOD-□KPSR	Magnetic Starters Open type NonReversing	861, 862
MSOD-□SA	Magnetic Starters Open type NonReversing	861, 862
MSOD-□SR	Magnetic Starters Open type NonReversing	861, 862
MSOD-□YS	Magnetic Starters Open type NonReversing	861, 862
MSOD-Q□□	DC Interface Contactors	880
MSOD-QR□□	DC Interface Contactors	880
MSOL-□	Magnetic Starters Open type NonReversing	861, 862
MSOLD-□	Magnetic Starters Open type NonReversing	861, 862
MSO-N□□□	Magnetic Starters Open type Non-Reversing	872, 876
MSO-N□□□KPK	Magnetic Starters Open type Non-Reversing	872
MSO-T□□	Magnetic Starters Open type Non-Reversing	871, 873
MSO-T□□KPK	Magnetic Starters Open type Non-Reversing	871
MS-T□□	Magnetic Starters Enclosed Non-Reversing	871, 873, 875
N		
NF1000-SEW	NF-S (Standard class)	677, 792
NF100-CVFU	UL 489 Listed Molded Case Circuit Breakers	689, 820
NF1250-SDW	NF-S (Standard class)	677, 794
NF1250-SEW	NF-S (Standard class)	677, 792
NF125-CV	NF-C (Economy class)	672, 764
NF125-HEV	NF-L/NF-H/NF-R (High-performance class)	679, 774
NF125-HGV	NF-L/NF-H/NF-R (High-performance class)	678, 772
NF125-HV	NF-L/NF-H/NF-R (High-performance class)	678, 764
NF125-HVU	UL 489 Listed Molded Case Circuit Breakers	689, 822
NF125-LGV	NF-L/NF-H/NF-R (High-performance class)	678, 772
NF125-RGV	NF-L/NF-H/NF-R (High-performance class)	678, 772
NF125-SEV	NF-C (Economy class)	675, 774
NF125-SGV	NF-C (Economy class)	675, 772
NF125-SV	NF-C (Economy class)	675, 688, 764
NF125-SVU	UL 489 Listed Molded Case Circuit Breakers	689, 822
NF125-UV	NF-U (Ultra current-limiting class)	681, 766

Index

Model	Product name	Page
NF1600-SDW	NF-S (Standard class)	677, 798
NF1600-SEW	NF-S (Standard class)	677, 796
NF160-HGV	NF-L/NF-H/NF-R (High-performance class)	679, 772
NF160-LGV	NF-L/NF-H/NF-R (High-performance class)	679, 772
NF160-SGV	NF-C (Economy class)	675, 772
NF225-CWU	UL 489 Listed Molded Case Circuit Breakers	690, 824
NF250-CV	NF-C (Economy class)	673, 768
NF250-HEV	NF-H/NF-R (High-performance class)	680, 774
NF250-HEV with MDU	MDU Breakers	693, 695, 697, 832
NF250-HGV	NF-L/NF-H/NF-R (High-performance class)	679, 772
NF250-HV	NF-L/NF-H/NF-R (High-performance class)	679, 768
NF250-HVU	UL 489 Listed Molded Case Circuit Breakers	690, 826
NF250-LGV	NF-L/NF-H/NF-R (High-performance class)	679, 772
NF250-RGV	NF-L/NF-H/NF-R (High-performance class)	679, 772
NF250-SEV	NF-S (Standard class)	676, 774
NF250-SEV with MDU	MDU Breakers	693, 695, 697, 832
NF250-SGV	NF-S (Standard class)	676, 772
NF250-SV	NF-C (Economy class)	675, 688, 768
NF250-SVU	UL 489 Listed Molded Case Circuit Breakers	690, 826
NF250-UV	NF-U (Ultra current-limiting class)	681, 770
NF30-CS	NF-C (Economy class)	672, 760
NF32-SV	NF-C (Economy class)	674, 688, 762
NF400-CW	NF-C (Economy class)	673, 776
NF400-HEP with MDU	MDU Breakers	693, 696, 698, 834
NF400-HEW	NF-H/NF-R (High-performance class)	680, 778
NF400-HWU	UL 489 Listed Molded Case Circuit Breakers	691, 828
NF400-REW	NF-H/NF-R (High-performance class)	680, 778
NF400-SEP with MDU	MDU Breakers	693, 696, 698, 834
NF400-SEW	NF-S (Standard class)	676, 778
NF400-SW	NF-S (Standard class)	676, 776
NF400-SWU	UL 489 Listed Molded Case Circuit Breakers	691, 828
NF400-UEW	NF-U (Ultra current-limiting class)	681, 780
NF50-SVFU	UL 489 Listed Molded Case Circuit Breakers	689, 818
NF630-CW	NF-C (Economy class)	673, 782
NF630-HEP with MDU	MDU Breakers	693, 696, 698, 836
NF630-HEW	NF-H/NF-R (High-performance class)	680, 784
NF630-HWU	UL 489 Listed Molded Case Circuit Breakers	691, 830
NF630-REW	NF-H/NF-R (High-performance class)	680, 784

Model	Product name	Page
NF630-SEP with MDU	MDU Breakers	693, 696, 698, 836
NF630-SEW	NF-S (Standard class)	677, 784
NF630-SW	NF-S (Standard class)	677, 782
NF630-SWU	UL 489 Listed Molded Case Circuit Breakers	691, 830
NF63-CV	NF-C (Economy class)	672, 688, 762
NF63-HV	NF-L/NF-H/NF-R (High-performance class)	678, 762
NF63-SV	NF-C (Economy class)	674, 688, 762
NF800-CEW	NF-C (Economy class)	673, 786
NF800-HEP with MDU	MDU Breakers	693, 696, 698, 836
NF800-HEW	NF-H/NF-R (High-performance class)	680, 786
NF800-REW	NF-H/NF-R (High-performance class)	680, 786
NF800-SDW	NF-S (Standard class)	677, 788
NF800-SEP with MDU	MDU Breakers	693, 696, 698, 836
NF800-SEW	NF-S (Standard class)	677, 786
NF800-UEW	NF-U (Ultra current-limiting class)	681, 790
NV100-CVFU	UL 489 Listed Earth Leakage Circuit Breakers (Harmonic Surge Ready)	692, 820
NV125-CV	NV-C (Economy class) Harmonic Surge Ready	682, 802
NV125-HEV	NV-H/NV-R (High-performance class) Harmonic Surge Ready	686, 806
NV125-HV	NV-H/NV-R (High-performance class) Harmonic Surge Ready	686, 802
NV125-HVU	UL 489 Listed Earth Leakage Circuit Breakers (Harmonic Surge Ready)	692, 822
NV125-SEV	NV-S (Standard class) Harmonic Surge Ready	684, 806
NV125-SV	NV-S (Standard class) Harmonic Surge Ready	684, 802
NV125-SVU	UL 489 Listed Earth Leakage Circuit Breakers (Harmonic Surge Ready)	692, 822
NV250-CV	NV-C (Economy class) Harmonic Surge Ready	683, 804
NV250-HEV	NV-H/NV-R (High-performance class) Harmonic Surge Ready	686, 806
NV250-HV	NV-H/NV-R (High-performance class) Harmonic Surge Ready	686, 804
NV250-HVU	UL 489 Listed Earth Leakage Circuit Breakers (Harmonic Surge Ready)	692, 826
NV250-SEV	NV-S (Standard class) Harmonic Surge Ready	685, 806
NV250-SV	NV-S (Standard class) Harmonic Surge Ready	685, 804
NV250-SVU	UL 489 Listed Earth Leakage Circuit Breakers (Harmonic Surge Ready)	692, 826
NV32-SV	NV-S (Standard class) Harmonic Surge Ready	684, 800
NV400-CW	NV-C (Economy class) Harmonic Surge Ready	683, 776, 808
NV400-HEW	NV-H/NV-R (High-performance class) Harmonic Surge Ready	687, 810
NV400-REW	NV-H/NV-R (High-performance class) Harmonic Surge Ready	687, 810
NV400-SEW	NV-S (Standard class) Harmonic Surge Ready	685, 810
NV400-SW	NV-S (Standard class) Harmonic Surge Ready	685, 776, 808
NV50-SVFU	UL 489 Listed Earth Leakage Circuit Breakers (Harmonic Surge Ready)	692, 818
NV630-CW	NV-C (Economy class) Harmonic Surge Ready	683, 812

Model	Product name	Page
NV630-HEW	NV-H/NV-R (High-performance class) Harmonic Surge Ready	687, 814
NV630-SEW	NV-S (Standard class) Harmonic Surge Ready	685, 814
NV630-SW	NV-S (Standard class) Harmonic Surge Ready	685, 812
NV63-CV	NV-C (Economy class) Harmonic Surge Ready	682, 800
NV63-HV	NV-H/NV-R (High-performance class) Harmonic Surge Ready	686, 800
NV63-SV	NV-S (Standard class) Harmonic Surge Ready	684, 800
NV800-HEW	NV-H/NV-R (High-performance class) Harmonic Surge Ready	687, 816
NV800-SEW	NV-S (Standard class) Harmonic Surge Ready	685, 816
NV-ZBA	Earth Leakage Relay	712
NV-ZHA	Earth Leakage Relay	712
NV-ZLA	Earth Leakage Relay	712
NV-ZSA	Earth Leakage Relay	712
NZ1MEM-□GBSD	Memory card SD memory card	206, 211, 214, 222, 623
NZ1MEM-16GBSD	MELSEC iQ-R Series CPU module	206, 214, 222
NZ2AW1C1BY	Network Related Products Bridge Module	177, 230
NZ2AW1C2AL	Network Related Products Bridge Module	177, 230
NZ2AW1C2D2	Network Related Products Bridge Module	177, 230
NZ2AW1GFAL	Network Related Products Bridge Module	167, 229
NZ2EHF-T8	Network Related Products Ethernet Compatible Products	182, 234
NZ2EHG-T8	Network Related Products Ethernet Related Product	234
NZ2EHG-T8N	Network Related Products Ethernet Compatible Products	182
NZ2EX2B1-16D	Network Related Products Extension Module Input module	165, 229
NZ2EX2B1-16T	Network Related Products Extension Module Output module	165, 229
NZ2EX2B1-16TE	Network Related Products Extension Module Output module	165, 229
NZ2EX2B1N-16D	Network Related Products Extension Module Input module	165, 229
NZ2EX2B1N-16T	Network Related Products Extension Module Output module	165, 229
NZ2EX2B1N-16TE	Network Related Products Extension Module Output module	165, 229
NZ2EX2B-60AD4	Network Related Products Extension Analog Input Modules	166, 229
NZ2EX2Bz-60DA4	Network Related Products Extension Analog Output Modules	166
NZ2EX2S1-16D	Network Related Products Extension Module Input module	165, 229
NZ2EX2S1-16T	Network Related Products Extension Module Output module	165, 229
NZ2EX2S1-16TE	Network Related Products Extension Module Output module	165, 229
NZ2EXSS2-8TE	Network Related Products Safety Remote I/O Module	166, 229
NZ2GF2B1N1-16D	Network Related Products Remote I/O Module Input module	162, 228
NZ2GF2B1N1-16T	Network Related Products Remote I/O Module Output module	162, 229
NZ2GF2B1N1-16TE	Network Related Products Remote I/O Module Output module	162, 229
NZ2GF2B1N-16D	Network Related Products Remote I/O Module Input module	162, 228
NZ2GF2B1N-16T	Network Related Products Remote I/O Module Output module	162, 229

Model	Product name	Page
NZ2GF2B1N-16TE	Network Related Products Remote I/O Module Output module	162, 229
NZ2GF2B-60CRT4	Network Related Products Temperature Control Module	164, 229
NZ2GF2B-60TCTT4	Network Related Products Temperature Control Module	164, 229
NZ2GF2BN-60AD4	Network Related Products Voltage, current input	164, 229
NZ2GF2BN-60DA4	Network Related Products Voltage, current output	164, 229
NZ2GF2S1-16D	Network Related Products Remote I/O Module Input module	162, 228
NZ2GF2S1-16T	Network Related Products Remote I/O Module Output module	162, 229
NZ2GF2S1-16TE	Network Related Products Remote I/O Module Output module	162, 229
NZ2GF-CCB	Network Related Products Bridge Module	167, 229, 230
NZ2GFCE3-16D	Network Related Products Remote I/O Module Input module	163, 228
NZ2GFCE3-16DE	Network Related Products Remote I/O Module Input module	163, 228
NZ2GFCE3-16T	Network Related Products Remote I/O Module Output module	163, 229
NZ2GFCE3-16TE	Network Related Products Remote I/O Module Output module	163, 229
NZ2GFCE3-32D	Network Related Products Remote I/O Module Input module	163, 228
NZ2GFCE3-32DT	Network Related Products Remote I/O Module I/O composite module	163, 229
NZ2GFCE3-32T	Network Related Products Remote I/O Module Output module	163, 229
NZ2GFCF1-32D	Network Related Products Remote I/O Module Input module	164, 228
NZ2GFCF1-32DT	Network Related Products Remote I/O Module I/O composite module	164, 229
NZ2GFCF1-32T	Network Related Products Remote I/O Module Output module	164, 229
NZ2GFCF-D62PD2	Network Related Products High-Speed Counter Module	165, 229
NZ2GFCM1-16D	Network Related Products Remote I/O Module Input module	163, 228
NZ2GFCM1-16DE	Network Related Products Remote I/O Module Input module	163, 228
NZ2GFCM1-16T	Network Related Products Remote I/O Module Output module	163, 229
NZ2GFCM1-16TE	Network Related Products Remote I/O Module Output module	163, 229
NZ2GF-ETB	Network Related Products Ethernet Adapter Module	167, 229, 234
NZ2GFSS2-32D	Network Related Products Safety Remote I/O Module	166, 229
NZ2MC-16MBS	MELSEC iQ-R Series CPU module	206
NZ2MC-1MBS	MELSEC iQ-R Series CPU module	206
NZ2MC-2MBS	MELSEC iQ-R Series CPU module	206
NZ2MC-4MBS	MELSEC iQ-R Series CPU module	206
NZ2MC-8MBS	MELSEC iQ-R Series CPU module	206
NZ2MC-8MBSSE	MELSEC iQ-R Series CPU module	206
NZ2MHG-T8F2	Network Related Products Ethernet Compatible Products	182
NZ2WL-CN	Network Related Products Ethernet Related Product	234
NZ2WL-EU	Network Related Products Ethernet Related Product	234
NZ2WL-JPA	Network Related Products Ethernet Compatible Products	182
NZ2WL-JPS	Network Related Products Ethernet Compatible Products	182
NZ2WL-KR	Network Related Products Ethernet Related Product	234

Index

Model	Product name	Page
NZ2WL-TW	Network Related Products Ethernet Related Product	234
NZ2WL-US	Network Related Products Ethernet Related Product	234
Q		
Q00CPU	MELSEC-Q Series CPU Module	114, 213
Q00JCPU	MELSEC-Q Series CPU Module	114, 213
Q00UCPU	MELSEC-Q Series Programmable Controller CPU	92, 112, 212
Q00UJCPU	MELSEC-Q Series Programmable Controller CPU	92, 112, 212
Q01CPU	MELSEC-Q Series CPU Module	114, 213
Q01UCPU	MELSEC-Q Series Programmable Controller CPU	92, 112, 212
Q02CPU	MELSEC-Q Series CPU Module	115, 213
Q02HCPU	MELSEC-Q Series CPU Module	115, 213
Q02PHCPU	MELSEC-Q Series Process CPU	93, 116, 213
Q02UCPU	MELSEC-Q Series Programmable Controller CPU	92, 113
Q03UDCPU	MELSEC-Q Series Programmable Controller CPU	92, 113, 212
Q03UDECPU	MELSEC-Q Series Programmable Controller CPU	92, 113, 212
Q03UDVCPU	MELSEC-Q Series Programmable Controller CPU	92, 112, 212
Q04UDEHCPU	MELSEC-Q Series Programmable Controller CPU	92, 113, 212
Q04UDHCPU	MELSEC-Q Series Programmable Controller CPU	92, 113, 212
Q04UDVCPU	MELSEC-Q Series Programmable Controller CPU	92, 112, 212
Q06CCPU-V	MELSEC-Q Series CPU module	213
Q06HCPU	MELSEC-Q Series CPU Module	115, 213
Q06PHCPU	MELSEC-Q Series Process CPU	93, 116, 213
Q06UDEHCPU	MELSEC-Q Series Programmable Controller CPU	92, 113, 212
Q06UDHCPU	MELSEC-Q Series Programmable Controller CPU	92, 113, 212
Q06UDVCPU	MELSEC-Q Series Programmable Controller CPU	92, 112, 212
Q100UDEHCPU	MELSEC-Q Series Programmable Controller CPU	92, 113, 212
Q10UDEHCPU	MELSEC-Q Series Programmable Controller CPU	92, 113, 212
Q10UDHCPU	MELSEC-Q Series Programmable Controller CPU	92, 113, 212
Q12DCCPU-CBL	MELSEC-Q Series CPU module	213
Q12DCCPU-V	MELSEC-Q Series C Controller	95, 213
Q12DCCPU-V-B011	MELSEC-Q Series CPU module	213
Q12DCCPU-V-B013	MELSEC-Q Series CPU module	213
Q12DCCPU-V-B015	MELSEC-Q Series CPU module	213
Q12DCCPU-V-B019	MELSEC-Q Series CPU module	213
Q12DCCPU-V-B01B	MELSEC-Q Series CPU module	213
Q12DCCPU-V-B01D	MELSEC-Q Series CPU module	213
Q12HCPU	MELSEC-Q Series CPU Module	115, 213
Q12PHCPU	MELSEC-Q Series Process CPU	93, 116, 213

Model	Product name	Page
Q12PRHCPU	MELSEC-Q Series Redundant CPU	94, 117, 213
Q13UDEHCPU	MELSEC-Q Series Programmable Controller CPU	92, 113, 212
Q13UDHCPU	MELSEC-Q Series Programmable Controller CPU	92, 113, 212
Q13UDVCPU	MELSEC-Q Series Programmable Controller CPU	92, 112, 212
Q170MSCPU	Motion controller	240, 245 to 250, 254
Q170MSCPU-S1	Motion controller	240, 245 to 250, 254
Q171ENC-W8	Serial absolute synchronous encoder	251, 254
Q172DEX	Synchronous encoder interface module	250, 251, 254
Q172DLX	Servo external signals interface module	250, 251, 254
Q172DRCPU	MELSEC-Q Series Robot Controller	96
Q172DSCPU	Motion CPU module	240, 244, 246, 247, 248, 250, 253, 254
Q173DPX	Manual pulse generator interface module	250, 251, 254
Q173DSCPU	MELSEC-Q Series Motion CPU	96, 240, 244, 246, 247, 248, 250, 253, 254
Q173DSXY	Safety signal module	250, 252, 253, 254
Q173NCCPU-S01	MELSEC-Q Series CNC CPU	96
Q20UDEHCPU	MELSEC-Q Series Programmable Controller CPU	92, 113, 212
Q20UDHCPU	MELSEC-Q Series Programmable Controller CPU	92, 113, 212
Q24DHCCPU-LS	MELSEC-Q Series C Controller	95, 213
Q24DHCCPU-LS-B030	MELSEC-Q Series CPU module	213
Q24DHCCPU-V	MELSEC-Q Series C Controller	95, 213
Q24DHCCPU-V-B019	MELSEC-Q Series CPU module	213
Q24DHCCPU-V-B01D	MELSEC-Q Series CPU module	213
Q24DHCCPU-VG-□	MELSEC-Q Series C Controller	95
Q24DHCCPU-VG-B000	MELSEC-Q Series CPU module	213
Q24DHCCPU-VG-B002	MELSEC-Q Series CPU module	213
Q25HCPU	MELSEC-Q Series CPU Module	115, 213
Q25PHCPU	MELSEC-Q Series Process CPU	93, 116, 213
Q25PRHCPU	MELSEC-Q Series Redundant CPU	94, 117, 213
Q26DHCCPU-LS	MELSEC-Q Series C Controller	95
Q26UDEHCPU	MELSEC-Q Series Programmable Controller CPU	92, 113, 212
Q26UDHCPU	MELSEC-Q Series Programmable Controller CPU	92, 113, 212
Q26UDVCPU	MELSEC-Q Series Programmable Controller CPU	92, 112, 212
Q2MEM-16MBA	MELSEC-Q Series CPU module	214
Q2MEM-1MBS	MELSEC-Q Series CPU module	214
Q2MEM-2MBS	MELSEC-Q Series CPU module	214
Q2MEM-32MBA	MELSEC-Q Series CPU module	214
Q2MEM-8MBA	MELSEC-Q Series CPU module	214
Q2MEM-ADP	MELSEC-Q Series CPU module	214

Model	Product name	Page
Q2MEM-BAT	MELSEC-Q Series CPU module	214
Q312B	MELSEC-Q Series Base Unit	97, 215
Q312DB	MELSEC-Q Series Base Unit	97, 215
Q32SB	MELSEC-Q Series Base Unit	97, 215
Q33B	MELSEC-Q Series Base Unit	97, 215
Q33SB	MELSEC-Q Series Base Unit	97, 215
Q35B	MELSEC-Q Series Base Unit	97, 215
Q35BL	Q Series large type base unit	239
Q35BLS	Q Series large type base unit (AnS Series size)	239
Q35BLS-D	Q Series large type base unit (AnS Series size)	239
Q35DB	MELSEC-Q Series Base Unit	97, 215
Q35SB	MELSEC-Q Series Base Unit	97, 215
Q38B	MELSEC-Q Series Base Unit	97, 215
Q38BL	Q Series large type base unit	239
Q38BLS	Q Series large type base unit (AnS Series size)	239
Q38BLS-D	Q Series large type base unit (AnS Series size)	239
Q38DB	MELSEC-Q Series Base Unit	97, 215
Q3MEM-4MBS	MELSEC-Q Series CPU module	214
Q3MEM-4MBS-SET	MELSEC-Q Series CPU module	214
Q3MEM-8MBS	MELSEC-Q Series CPU module	214
Q3MEM-8MBS-SET	MELSEC-Q Series CPU module	214
Q3MEM-BAT	MELSEC-Q Series CPU module	214
Q3MEM-CV	MELSEC-Q Series CPU module	214
Q3MEM-CV-H	MELSEC-Q Series CPU module	214
Q4MCA-1MBS	MELSEC-Q Series CPU module	214
Q4MCA-2MBS	MELSEC-Q Series CPU module	214
Q4MCA-4MBS	MELSEC-Q Series CPU module	214
Q4MCA-8MBS	MELSEC-Q Series CPU module	214
Q50BD-CCV2	Network Related Products CC-Link Related Products	232
Q50UDEHCPU	MELSEC-Q Series Programmable Controller CPU	92, 113, 212
Q52B	MELSEC-Q Series Base Unit	97, 215
Q55B	MELSEC-Q Series Base Unit	97, 215
Q55BL	Q Series large type base unit	239
Q55BLS	Q Series large type base unit (AnS Series size)	239
Q55BLS-D	Q Series large type base unit (AnS Series size)	239
Q612B	MELSEC-Q Series Base Unit	97, 215
Q61LD	MELSEC-Q Series Load cell input	100, 218
Q61P	MELSEC-Q Series Power Supply Module	97, 215

Model	Product name	Page
Q61P-D	MELSEC-Q Series Power Supply Module	97, 215
Q61SP	MELSEC-Q Series Power Supply Module	97, 215
Q62AD-DGH	MELSEC-Q Series Current input	100, 218
Q62DA-FG	MELSEC-Q Series Voltage/current output	100, 218
Q62DAN	MELSEC-Q Series Voltage/current output	100, 218
Q62HLC	MELSEC-Q Series Loop control	101, 218
Q62P	MELSEC-Q Series Power Supply Module	97, 215
Q63B	MELSEC-Q Series Base Unit	97, 215
Q63P	MELSEC-Q Series Power Supply Module	97, 215
Q63RP	MELSEC-Q Series Power Supply Module	97, 215
Q64AD	MELSEC-Q Series Voltage/current input	100, 218
Q64AD2DA	MELSEC-Q Series Voltage and current input/output	100, 218
Q64AD-GH	MELSEC-Q Series Voltage/current input	100, 218
Q64ADH	MELSEC-Q Series Voltage/current input	100, 218
Q64DAH	MELSEC-Q Series Voltage/current output	100, 218
Q64DAN	MELSEC-Q Series Voltage/current output	100, 218
Q64PN	MELSEC-Q Series Power Supply Module	97, 215
Q64RD	MELSEC-Q Series Temperature input	101, 218
Q64RD-G	MELSEC-Q Series Temperature input	101, 218
Q64RP	MELSEC-Q Series Power Supply Module	97
Q64RPN	MELSEC-Q Series Power supply module	215
Q64TCRTBWN	MELSEC-Q Series Temperature control	101, 218
Q64TCRTN	MELSEC-Q Series Temperature control	101, 218
Q64TCTTBWN	MELSEC-Q Series Temperature control	101, 218
Q64TCTTN	MELSEC-Q Series Temperature control	101, 218
Q64TD	MELSEC-Q Series Temperature input	101, 218
Q64TDV-GH	MELSEC-Q Series Temperature input	101, 218
Q65B	MELSEC-Q Series Base Unit	97, 215
Q65BL	Q Series large type base unit	239
Q65BLS	Q Series large type base unit (AnS Series size)	239
Q65BLS-D	Q Series large type base unit (AnS Series size)	239
Q65WRB	MELSEC-Q Series Base Unit	97, 215
Q66AD-DG	MELSEC-Q Series Current input	100, 218
Q66DA-G	MELSEC-Q Series Voltage/current output	100, 218
Q68AD-G	MELSEC-Q Series Voltage/current input	100, 218
Q68ADI	MELSEC-Q Series Current input	100, 218
Q68ADV	MELSEC-Q Series Voltage input	100, 218
Q68B	MELSEC-Q Series Base Unit	97, 215

Index

Model	Product name	Page
Q68BL	Q Series large type base unit	239
Q68BLS	Q Series large type base unit (AnS Series size)	239
Q68BLS-D	Q Series large type base unit (AnS Series size)	239
Q68CT	MELSEC-Q Series CT input module	100, 218
Q68DAIN	MELSEC-Q Series Current output	100, 218
Q68DAVN	MELSEC-Q Series Voltage output	100, 218
Q68RB	MELSEC-Q Series Base Unit	97, 215
Q68RD3-G	MELSEC-Q Series Temperature input	101, 218
Q68TD-G-H01	MELSEC-Q Series Temperature input	101, 218
Q68TD-G-H02	MELSEC-Q Series Temperature input	101, 218
Q6BAT	MELSEC iQ-R Series CPU module	206, 214, 222
Q6DIN1	MELSEC iQ-R Series Base unit	207, 215
Q6DIN1A	MELSEC iQ-R Series Base unit	207, 215
Q6DIN2	MELSEC iQ-R Series Base unit	207, 215
Q6DIN3	MELSEC-Q Series Base unit	215
Q6HLD-R2	MELSEC-Q Series CPU module	214
Q6KT-NPC2OG51	Network Related Products CC-Link Related Products	232
Q6TA32	MELSEC-Q Series Terminal block adapter	217
Q6TA32-TOL	MELSEC-Q Series Terminal block adapter	217
Q6TE-18SN	MELSEC-Q Series Spring clamp terminal block	217
Q7BAT	MELSEC iQ-R Series CPU module	206, 214, 222
Q7BAT-SET	MELSEC iQ-R Series CPU module	206, 214, 222
Q80BD-J61BT11N	Network Related Products Network Interface Board	177, 232
Q80BD-J71BR11	Network Related Products Network Interface Board	181, 234
Q80BD-J71GF11-T2	Network Related Products Network Interface Board	167, 229
Q80BD-J71GP21S-SX	Network Related Products Network Interface Board	162, 228
Q80BD-J71GP21-SX	Network Related Products Network Interface Board	162, 228
Q80BD-J71LP21-25	Network Related Products Network Interface Board	181, 234
Q80BD-J71LP21G	Network Related Products Network Interface Board	181, 234
Q80BD-J71LP21S-25	Network Related Products Network Interface Board	181, 234
Q81BD-J61BT11	Network Related Products Network Interface Board	177, 232
Q81BD-J71GF11-T2	Network Related Products Network Interface Board	167, 229
Q81BD-J71GP21S-SX	Network Related Products Network Interface Board	162, 228
Q81BD-J71GP21-SX	Network Related Products Network Interface Board	162, 228
Q81BD-J71LP21-25	Network Related Products Network Interface Board	181, 234
Q8BAT	MELSEC-Q Series CPU module	214
Q8BAT-SET	MELSEC-Q Series CPU module	214
QA1S51B	Extension base unit	239

Model	Product name	Page
QA1S65B	Extension base unit	239
QA1S68B	Extension base unit	239
QA1S6ADP	Base conversion adapter	239
QA65B	Extension base unit	239
QA68B	Extension base unit	239
QA6ADP	Base conversion adapter	239
QC05B	MELSEC-Q Series Base unit	215
QC06B	MELSEC-Q Series Base unit	215
QC100B	MELSEC-Q Series Base unit	215
QC10TR	MELSEC-Q Series CPU module	213
QC12B	MELSEC-Q Series Base unit	215
QC30B	MELSEC-Q Series Base unit	215
QC30R2	MELSEC-Q Series CPU module	214
QC30TR	MELSEC-Q Series CPU module	213
QC50B	MELSEC-Q Series Base unit	215
QD51	MELSEC-Q Series Information module	220
QD51-R24	MELSEC-Q Series Information module	220
QD60P8-G	MELSEC-Q Series Channel Isolated Pulse Input Module	104, 219
QD62	MELSEC-Q Series High-speed Counter Module	104, 219
QD62D	MELSEC-Q Series High-speed Counter Module	104, 219
QD62E	MELSEC-Q Series High-speed Counter Module	104, 219
QD62-H01	High-speed counter module	239
QD62-H02	High-speed counter module	239
QD63P6	MELSEC-Q Series High-speed Counter Module	104, 219
QD64D2	MELSEC-Q Series High-speed Counter Module	104, 219
QD65PD2	MELSEC-Q Series High-speed Counter Module	104, 219
QD70D4	MELSEC-Q Series Positioning Module	103, 219
QD70D8	MELSEC-Q Series Positioning Module	103, 219
QD70P4	MELSEC-Q Series Positioning Module	103, 219
QD70P8	MELSEC-Q Series Positioning Module	103, 219
QD72P3C3	MELSEC-Q Series Positioning Module	103, 219
QD73A1	Positioning module	239
QD74MH16	MELSEC-Q Series Positioning Module	103, 219
QD74MH8	MELSEC-Q Series Positioning Module	103, 219
QD75D1	MELSEC-Q Series Positioning Module	103, 219
QD75D1N	MELSEC-Q Series Positioning Module	103, 219
QD75D2	MELSEC-Q Series Positioning Module	103, 219
QD75D2N	MELSEC-Q Series Positioning Module	103, 219

Model	Product name	Page
QD75D4	MELSEC-Q Series Positioning Module	103, 219
QD75D4N	MELSEC-Q Series Positioning Module	103, 219
QD75M1	MELSEC-Q Series Positioning	219
QD75M2	MELSEC-Q Series Positioning	219
QD75M4	MELSEC-Q Series Positioning	219
QD75MH1	MELSEC-Q Series Positioning Module	103, 219
QD75MH2	MELSEC-Q Series Positioning Module	103, 219
QD75MH4	MELSEC-Q Series Positioning Module	103, 219
QD75P1	MELSEC-Q Series Positioning Module	103, 219
QD75P1N	MELSEC-Q Series Positioning Module	103, 219
QD75P2	MELSEC-Q Series Positioning Module	103, 219
QD75P2N	MELSEC-Q Series Positioning Module	103, 219
QD75P4	MELSEC-Q Series Positioning Module	103, 219
QD75P4N	MELSEC-Q Series Positioning Module	103, 219
QD77GF16	MELSEC-Q Series Simple Motion Module	102, 219, 228, 251, 254
QD77GF4	MELSEC-Q Series Simple Motion Module	102, 228
QD77GF8	MELSEC-Q Series Simple Motion Module	102, 228
QD77MS16	MELSEC-Q Series Simple Motion Module	102, 219, 241, 255, 258 to 261
QD77MS2	MELSEC-Q Series Simple Motion Module	102, 219, 241, 255, 258 to 261
QD77MS4	MELSEC-Q Series Simple Motion Module	102, 219, 241, 255, 258 to 261
QD81DL96	MELSEC-Q Series High-speed Data Logger Module	106, 220
QD81MEM-1GBC	MELSEC-Q Series CPU module	214, 220
QD81MEM-2GBC	MELSEC-Q Series CPU module	214, 220
QD81MEM-4GBC	MELSEC-Q Series CPU module	214, 220
QD81MEM-512MBC	MELSEC-Q Series CPU module	214, 220
QD81MEM-8GBC	MELSEC-Q Series CPU module	214, 220
QE81WH	MELSEC-Q Series Energy Measuring Module	105, 220, 920
QE81WH4W	MELSEC-Q Series Energy Measuring Module	105, 220, 920
QE82LG	MELSEC-Q Series Isolation Monitoring Module	105, 220, 922
QE83WH4W	MELSEC-Q Series Energy Measuring Module	105, 220, 920
QE84WH	MELSEC-Q Series Energy Measuring Module	105, 220, 920
QE8WH4VT	MELSEC-Q Series Energy measuring	220
QG60	MELSEC iQ-R Series Base unit	207, 215
QG69L	Q Series large type base unit	239
QG69LS	Q Series large type base unit (AnS Series size)	239
QH42P	MELSEC-Q Series I/O Combined Module	99, 216
QI60	MELSEC-Q Series Interrupt Module	98, 216
QJ51AW12AL	MELSEC-Q Series AnyWireASLINK Master Module	110, 221

Model	Product name	Page
QJ61BT11N	MELSEC-Q Series CC-Link Network Module	108, 221, 230
QJ61CL12	MELSEC-Q Series CC-Link/LT Network Module	109, 221, 233
QJ71AS92	MELSEC-Q Series As-i Master Module	111, 221
QJ71BR11	MELSEC-Q Series MELSECNET/H Network Module	109, 221
QJ71C24N	MELSEC-Q Series Serial Communication Module	111, 220
QJ71C24N (-R2/R4)	MELSEC-Q Series MODBUS®	221
QJ71C24N-R2	MELSEC-Q Series Serial Communication Module	111, 220
QJ71C24N-R4	MELSEC-Q Series Serial Communication Module	111, 220
QJ71DC96	MELSEC-Q Series High-Speed Data Communication Module	107, 220
QJ71E71-100	MELSEC-Q Series Ethernet Interface Module	108, 220, 221
QJ71E71-B2	MELSEC-Q Series Information module	220
QJ71E71-B5	MELSEC-Q Series Information module	220
QJ71FL71-B2	MELSEC-Q Series Control network module	221
QJ71FL71-B2-F01	MELSEC-Q Series Control network module	221
QJ71FL71-B5	MELSEC-Q Series Control network module	221
QJ71FL71-B5-F01	MELSEC-Q Series Control network module	221
QJ71FL71-T	MELSEC-Q Series FL-net (OPCN-2) Version 1.00	110, 221
QJ71FL71-T-F01	MELSEC-Q Series FL-net (OPCN-2) Version 2.00	110, 221
QJ71GF11-T2	MELSEC-Q Series CC-Link IE Field Network Module	108, 221, 228
QJ71GP21S-SX	MELSEC-Q Series CC-Link IE Control Network Module	108, 221, 228
QJ71GP21-SX	MELSEC-Q Series CC-Link IE Control Network Module	108, 221, 228
QJ71LP21-25	MELSEC-Q Series MELSECNET/H Network Module	109, 221
QJ71LP21G	MELSEC-Q Series MELSECNET/H Network Module	109, 221
QJ71LP21S-25	MELSEC-Q Series MELSECNET/H Network Module	109, 221
QJ71MB91	MELSEC-Q Series MODBUS®, MODBUS®/TCP Interface Module	111, 221
QJ71MES96	MELSEC-Q Series MES Interface Module	106, 220
QJ71MT91	MELSEC-Q Series MODBUS®, MODBUS®/TCP Interface Module	111, 221
QJ71NT11B	MELSEC-Q Series MELSECNET/H Network Module	109, 221
QJ72BR15	MELSEC-Q Series MELSECNET/H Network Module	109, 221
QJ72LP25-25	MELSEC-Q Series MELSECNET/H Network Module	109, 221
QJ72LP25G	MELSEC-Q Series MELSECNET/H Network Module	109, 221
QnUDE(H)CPU	MELSEC-Q Series SLMP (MC protocol)	221
QnUDVCP	MELSEC-Q Series SLMP (MC protocol)	221
QS001CPU	MELSEC-QS/WS Series Safety CPU module	158
QS001CPU(-K)	MELSEC-QS/WS Series CPU Module	152, 227
QS034B(-K)	MELSEC-QS/WS Series Safety Main Base Unit	152, 227
QS061P-A1(-K)	MELSEC-QS/WS Series Safety Power Supply Module	152, 227
QS061P-A2(-K)	MELSEC-QS/WS Series Safety Power Supply Module	152, 227

Index

Model	Product name	Page
QS0J61BT12(-K)	MELSEC-QS/WS Series Safety Network Unit	153, 227
QS0J65BTB2-12DT(-K)	MELSEC-QS/WS Series CC-Link Safety System Remote I/O Module	153, 227
QS0J65BTS2-4T	MELSEC-QS/WS Series CC-Link Safety System Remote I/O Module	153, 227
QS0J65BTS2-8D	MELSEC-QS/WS Series CC-Link Safety System Remote I/O Module	153, 227
QS0J71GF11-T2	MELSEC-QS/WS Series Safety Network Unit	153, 227, 228
QS90CBL-SE01	MELSEC-QS/WS Series Safety Relay Module	227
QS90CBL-SE15	MELSEC-QS/WS Series Safety Relay Module	227
QS90SR2SN-CC	MELSEC-QS/WS Series CC-Link Safety Relay Module	157, 159, 227, 232
QS90SR2SN-EX	MELSEC-QS/WS Series Extension Safety Relay Module	157, 159, 227
QS90SR2SN-Q	MELSEC-QS/WS Series Q Series Safety Relay Module	156, 159, 227
QS90SR2SP-CC	MELSEC-QS/WS Series CC-Link Safety Relay Module	157, 159, 227, 232
QS90SR2SP-EX	MELSEC-QS/WS Series Extension Safety Relay Module	157, 159, 227
QS90SR2SP-Q	MELSEC-QS/WS Series Q Series Safety Relay Module	156, 159, 227
QX10	MELSEC-Q Series Input Module	98, 216
QX10-TS	MELSEC-Q Series Input Module	98, 216
QX11L	Q Series large type I/O module	239
QX28	MELSEC-Q Series Input Module	98, 216
QX40	MELSEC-Q Series Input Module	98, 216
QX40H	MELSEC-Q Series Input Module	98, 216
QX40-S1	MELSEC-Q Series Input Module	98, 216
QX40-TS	MELSEC-Q Series Input Module	98, 216
QX41	MELSEC-Q Series Input Module	98, 216
QX41-S1	MELSEC-Q Series Input Module	98, 216
QX41-S2	MELSEC-Q Series Input Module	98, 216
QX41Y41P	MELSEC-Q Series I/O Combined Module	99, 216
QX42	MELSEC-Q Series Input Module	98, 216
QX42-S1	MELSEC-Q Series Input Module	98, 216
QX48Y57	MELSEC-Q Series I/O Combined Module	99, 216
QX50	MELSEC-Q Series Input Module	98, 216
QX70	MELSEC-Q Series Input Module	98, 216
QX70H	MELSEC-Q Series Input Module	98, 216
QX71	MELSEC-Q Series Input Module	98, 216
QX72	MELSEC-Q Series Input Module	98, 216
QX80	MELSEC-Q Series Input Module	98, 216
QX80H	MELSEC-Q Series Input Module	98, 216
QX80-TS	MELSEC-Q Series Input Module	98, 216
QX81	MELSEC-Q Series Input Module	98, 216
QX81-S2	MELSEC-Q Series Input Module	98, 216

Model	Product name	Page
QX82	MELSEC-Q Series Input Module	98, 216
QX82-S1	MELSEC-Q Series Input Module	98, 216
QX90H	MELSEC-Q Series Input Module	98, 216
QY10	MELSEC-Q Series Output Module	99, 216
QY10-TS	MELSEC-Q Series Output Module	99, 216
QY11AL	Q Series large type I/O module	239
QY13L	Q Series large type I/O module	239
QY18A	MELSEC-Q Series Output Module	99, 216
QY22	MELSEC-Q Series Output Module	99, 216
QY23L	Q Series large type I/O module	239
QY40P	MELSEC-Q Series Output Module	99, 216
QY40P-TS	MELSEC-Q Series Output Module	99, 216
QY41H	MELSEC-Q Series Output Module	99, 216
QY41P	MELSEC-Q Series Output Module	99, 216
QY42P	MELSEC-Q Series Output Module	99, 216
QY50	MELSEC-Q Series Output Module	99, 216
QY51PL	Q Series large type I/O module	239
QY68A	MELSEC-Q Series Output Module	99, 216
QY70	MELSEC-Q Series Output Module	99, 216
QY71	MELSEC-Q Series Output Module	99, 216
QY80	MELSEC-Q Series Output Module	99, 216
QY80-TS	MELSEC-Q Series Output Module	99, 216
QY81P	MELSEC-Q Series Output Module	99, 216
QY82P	MELSEC-Q Series Output Module	99, 216
R		
R04CPU	MELSEC iQ-R Series Programmable Controller CPU Module	30, 44, 45, 206
R04ENCPU	MELSEC iQ-R Series Programmable Controller CPU Module	30, 44, 45, 206, 228
R08CPU	MELSEC iQ-R Series Programmable Controller CPU Module	30, 44, 45, 206
R08ENCPU	MELSEC iQ-R Series Programmable Controller CPU Module	30, 44, 45, 206, 228
R08PCPU	MELSEC iQ-R Series Process CPU Module	31, 44, 45, 206
R08SFPCPU	MELSEC iQ-R Series Programmable Controller CPU Module	46, 47
R08SFPCPU-SET	MELSEC iQ-R Series Safety CPU	32, 206
R120CPU	MELSEC iQ-R Series Programmable Controller CPU Module	30, 44, 45, 206
R120ENCPU	MELSEC iQ-R Series Programmable Controller CPU Module	30, 44, 45, 206, 228
R120PCPU	MELSEC iQ-R Series Process CPU Module	31, 44, 45, 206
R120SFPCPU	MELSEC iQ-R Series Programmable Controller CPU Module	46, 47
R120SFPCPU-SET	MELSEC iQ-R Series Safety CPU	32, 206
R12CCPU-V	MELSEC iQ-R Series C Controller Module	32, 206

Model	Product name	Page
R16CPU	MELSEC iQ-R Series Programmable Controller CPU Module	30, 44, 45, 206
R16ENCPU	MELSEC iQ-R Series Programmable Controller CPU Module	30, 44, 45, 206, 228
R16MTCPU	MELSEC iQ-R Series Motion CPU Module	33, 206
R16PCPU	MELSEC iQ-R Series Process CPU Module	31, 44, 45, 206
R16SFPCPU	MELSEC iQ-R Series Programmable Controller CPU Module	46, 47
R16SFPCPU-SET	MELSEC iQ-R Series Safety CPU	32, 206
R310B-HT	MELSEC iQ-R Series Base Unit	34, 207
R310RB	MELSEC iQ-R Series Base Unit	34, 207
R312B	MELSEC iQ-R Series Base Unit	34, 207
R32CPU	MELSEC iQ-R Series Programmable Controller CPU Module	30, 44, 45, 206
R32ENCPU	MELSEC iQ-R Series Programmable Controller CPU Module	30, 44, 45, 206, 228
R32MTCPU	MELSEC iQ-R Series Motion CPU Module	33, 206
R32PCPU	MELSEC iQ-R Series Process CPU Module	31, 44, 45, 206
R32SFPCPU	MELSEC iQ-R Series Programmable Controller CPU Module	46, 47
R32SFPCPU-SET	MELSEC iQ-R Series Safety CPU	32, 206
R32TB	Standard teaching pendant (7m, 15m)	658
R33TB	Standard teaching pendant (7m, 15m)	658
R35B	MELSEC iQ-R Series Base Unit	34, 207
R38B	MELSEC iQ-R Series Base Unit	34, 207
R38RB-HT	MELSEC iQ-R Series Base Unit	34, 207
R56TB	High-function teaching pendant (7m, 15m)	658
R57TB	High-function teaching pendant (7m, 15m)	658
R60AD16-G	MELSEC iQ-R Series Analog Input/Analog Output	36, 208
R60AD4	MELSEC iQ-R Series Analog Input/Analog Output	36, 208
R60AD8-G	MELSEC iQ-R Series Analog Input/Analog Output	36, 208
R60ADH4	MELSEC iQ-R Series Analog Input/Analog Output	36, 208
R60ADI8	MELSEC iQ-R Series Analog Input/Analog Output	36, 208
R60ADV8	MELSEC iQ-R Series Analog Input/Analog Output	36, 208
R60DA16-G	MELSEC iQ-R Series Analog Input/Analog Output	36, 208
R60DA4	MELSEC iQ-R Series Analog Input/Analog Output	36, 208
R60DA8-G	MELSEC iQ-R Series Analog Input/Analog Output	36, 208
R60DAI8	MELSEC iQ-R Series Analog Input/Analog Output	36, 208
R60DAV8	MELSEC iQ-R Series Analog Input/Analog Output	36, 208
R60RD8-G	MELSEC iQ-R Series Temperature Input Module	37, 208
R60TCRT4	MELSEC iQ-R Series Temperature Control Module	37, 208
R60TCRT4BW	MELSEC iQ-R Series Temperature Control Module	37, 208
R60TCRT2TT2	MELSEC iQ-R Series Temperature Control Module	37, 208
R60TCRT2TT2BW	MELSEC iQ-R Series Temperature Control Module	37, 208

Model	Product name	Page
R60TD8-G	MELSEC iQ-R Series Temperature Input Module	37, 208
R610B-HT	MELSEC iQ-R Series Base Unit	34, 207
R610RB	MELSEC iQ-R Series Base Unit	34, 207
R612B	MELSEC iQ-R Series Base Unit	34, 207
R61P	MELSEC iQ-R Series Power Supply Module	34, 207
R62P	MELSEC iQ-R Series Power Supply Module	34, 207
R63P	MELSEC iQ-R Series Power Supply Module	34, 207
R64MTCPU	MELSEC iQ-R Series Motion CPU Module	33, 206
R64P	MELSEC iQ-R Series Power Supply Module	34, 207
R64RP	MELSEC iQ-R Series Power Supply Module	34, 207
R65B	MELSEC iQ-R Series Base Unit	34, 207
R68B	MELSEC iQ-R Series Base Unit	34, 207
R68RB-HT	MELSEC iQ-R Series Base Unit	34, 207
R6DIN1	MELSEC iQ-R Series Base unit	207
R6RFM	MELSEC iQ-R Series Redundant Function Module	31, 206
RC06B	MELSEC iQ-R Series Base unit	207
RC12B	MELSEC iQ-R Series Base unit	207
RC30B	MELSEC iQ-R Series Base unit	207
RC50B	MELSEC iQ-R Series Base unit	207
RD55UP06-V	MELSEC iQ-R Series C Intelligent Function Module	40, 208
RD62D2	MELSEC iQ-R Series High-speed Counter Module	39, 208
RD62P2E	MELSEC iQ-R Series High-speed Counter Module	39, 208
RD75D2	MELSEC iQ-R Series Positioning Module	39, 208
RD75D4	MELSEC iQ-R Series Positioning Module	39, 208
RD75P2	MELSEC iQ-R Series Positioning Module	39, 208
RD75P4	MELSEC iQ-R Series Positioning Module	39, 208
RD77GF16	MELSEC iQ-R Series Simple Motion Module	38, 208, 228
RD77GF4	MELSEC iQ-R Series Simple Motion Module	38, 208, 228
RD77GF8	MELSEC iQ-R Series Simple Motion Module	38, 208, 228
RD77MS16	MELSEC iQ-R Series Simple Motion Module	38, 208
RD77MS2	MELSEC iQ-R Series Simple Motion Module	38, 208
RD77MS4	MELSEC iQ-R Series Simple Motion Module	38, 208
RD77MS8	MELSEC iQ-R Series Simple Motion Module	38, 208
RD81DL96	MELSEC iQ-R Series High-speed Data Logger Module	40, 208
RD81MES96	MELSEC iQ-R Series MES Interface Module	40, 208
RG60	MELSEC iQ-R Series Base unit	207
RH-12FH55XX/M/C	Industrial Robot	653
RH-12FH70XX/M/C	Industrial Robot	653

Index

Model	Product name	Page
RH-12FH85XX/M/C	Industrial Robot	653
RH-20FH100XX/M/C	Industrial Robot	653
RH-20FH85XX/M/C	Industrial Robot	653
RH-3FH3515/12C	Industrial Robot	652
RH-3FH4515/12C	Industrial Robot	652
RH-3FH5515/12C	Industrial Robot	652
RH42C4NT2P	MELSEC iQ-R Series I/O Combined Module	35, 207
RH-6FH35XX/M/C	Industrial Robot	652
RH-6FH55XX/M/C	Industrial Robot	652
RJ51AW12AL	MELSEC iQ-R Series AnyWireASLINK Master Module	43, 208
RJ61BT11	MELSEC iQ-R Series CC-Link System Master/Local Module	42, 208, 230
RJ71C24	MELSEC iQ-R Series Serial Communication Module	43, 208
RJ71C24-R2	MELSEC iQ-R Series Serial Communication Module	43, 208
RJ71C24-R4	MELSEC iQ-R Series Serial Communication Module	43, 208
RJ71EN71	MELSEC iQ-R Series Ethernet Interface Module	41, 42, 208, 228
RJ71GF11-T2	MELSEC iQ-R Series CC-Link IE Field Network Master/Local Module	42, 208, 228
RJ71GP21-SX	MELSEC iQ-R Series CC-Link IE Control Network Module	41, 208, 228
RJ72GF15-T2	MELSEC iQ-R Series CC-Link IE Field Network Remote Head Module	42, 208, 228
RnENCPU	MELSEC iQ-R Series Ethernet Interface Module	41, 42
RQ612B	MELSEC iQ-R Series Base Unit	34, 207
RQ65B	MELSEC iQ-R Series Base Unit	34, 207
RV-13F(M)(C)	Industrial Robot	648
RV-13FL(M)(C)	Industrial Robot	648
RV-20F(M)(C)	Industrial Robot	648
RV-2F(B)	Industrial Robot	644
RV-2FL(B)	Industrial Robot	644
RV-35F(M)	Industrial Robot	650
RV-4F(M)(C)	Industrial Robot	644
RV-4FL(M)(C)	Industrial Robot	644
RV-50F(M)	Industrial Robot	650
RV-70F(M)	Industrial Robot	650
RV-7F(M)(C)	Industrial Robot	646
RV-7FL(M)(C)	Industrial Robot	646
RV-7FLL(M)(C)	Industrial Robot	646
RX10	MELSEC iQ-R Series Input Module	35, 207
RX40C7	MELSEC iQ-R Series Input Module	35, 207
RX40NC6B	MELSEC iQ-R Series Input Module	35, 207
RX40NC6H	MELSEC iQ-R Series Input Module	35, 207

Model	Product name	Page
RX41C4	MELSEC iQ-R Series Input Module	35, 207
RX41C6HS	MELSEC iQ-R Series Input Module	35, 207
RX42C4	MELSEC iQ-R Series Input Module	35, 207
RX61C6HS	MELSEC iQ-R Series Input Module	35, 207
RY10R2	MELSEC iQ-R Series Output Module	35, 207
RY40NT5P	MELSEC iQ-R Series Output Module	35, 207
RY40PT5B	MELSEC iQ-R Series Output Module	35, 207
RY40PT5P	MELSEC iQ-R Series Output Module	35, 207
RY41NT2H	MELSEC iQ-R Series Output Module	35, 207
RY41NT2P	MELSEC iQ-R Series Output Module	35, 207
RY41PT1P	MELSEC iQ-R Series Output Module	35, 207
RY41PT2H	MELSEC iQ-R Series Output Module	35, 207
RY42NT2P	MELSEC iQ-R Series Output Module	35, 207
RY42PT1P	MELSEC iQ-R Series Output Module	35, 207
S		
S(D)-2xT□□	Magnetic Contactors Open type NonReversing	875
S(D)-T□□	Magnetic Contactors Open type NonReversing	875
S-□	Magnetic Contactors Open type NonReversing	861, 862
S-□BC	Magnetic Contactors Open type NonReversing	861, 862
S-□CW	Magnetic Contactors Open type NonReversing	861, 862
S-□DL	Magnetic Contactors Open type NonReversing	861
S-□FN	Magnetic Contactors Open type NonReversing	861, 862
S-□QM	Magnetic Contactors Open type NonReversing	861
S-□SA	Magnetic Contactors Open type NonReversing	861, 862
S-□SD	Magnetic Contactors Open type Reversing	862
S-□SF	Magnetic Contactors Open type Reversing	862
S-□SG	Magnetic Contactors Open type Reversing	862
S-□SX	Magnetic Contactors Open type Reversing	862
S-□YS	Magnetic Contactors Open type NonReversing	861, 862
S-2xN□□□	Magnetic Contactors Open type Reversing	872, 877
S-2xT□□	Magnetic Contactors Open type Reversing	871, 875
SD-□	Magnetic Contactors Open type NonReversing	861, 862
SD-□BC	Magnetic Contactors Open type NonReversing	861, 862
SD-□SA	Magnetic Contactors Open type NonReversing	861, 862
SD-□SD	Magnetic Contactors Open type Reversing	862
SD-□SF	Magnetic Contactors Open type Reversing	862
SD-□SG	Magnetic Contactors Open type Reversing	862
SD-□SX	Magnetic Contactors Open type Reversing	862

Model	Product name	Page
SD-2xN□□□	DC Operate magnetic Contactors	878
SD-N□□□	DC Operate magnetic Contactors	878
SD-Q□□	DC Interface Contactors	880
SD-QR□□	DC Interface Contactors	880
SHTA400-05DLS	Circuit Protector	705, 706
SHTD048-05DLS	Circuit Protector	705, 706
SL-□	Magnetic Contactors Open type NonReversing	861, 862
SL-2xN□□□	Magnetic Contactor AC closing coil reversing	879
SLD-□	Magnetic Contactors Open type NonReversing	861, 862
SLD-2xN□□□	Magnetic Contactor DC closing coil reversing	879
SLD-N□□□	Magnetic Contactor DC closing coil non-reversing	879
SLD-T□FN	Magnetic Contactors Open type NonReversing	861
SL-N□□□	Magnetic Contactor AC closing coil non-reversing	879
SL-T□□	Magnetic Contactor AC closing coil non-reversing	879
SL-T□FN	Magnetic Contactors Open type NonReversing	861
S-N□□□	Magnetic Contactors Open type Non-Reversing	872, 877
SR-K□	Contactor Relays Specification	888
SR-T□	Contactor Relays Specification	887
S-T□□	Magnetic Contactors Open type Non-Reversing	871, 875
SW0D5C-CN VW-E	MELSOFT iQ Works	236
SW0D5C-QCTU-E	MELSOFT iQ Works	236
SW0D5C-QFLU-E	MELSOFT iQ Works	236
SW0D5C-QTCU-E	MELSOFT iQ Works	236
SW1D5C-FBDQ-E	Engineering and Programming Software PX Developer	200, 237
SW1D5C-FBDQ-J	Engineering and Programming Software PX Developer	200
SW1D5C-FXSSC-E	Engineering and Programming Software FX Configurator-FP	200
SW1D5C-FXSSC-J	Engineering and Programming Software FX Configurator-FP	200
SW1D5C-QASU-E	MELSOFT iQ Works	236
SW1D5C-QMBU-E	MELSOFT iQ Works	236
SW1D5C-QPTU-E	MELSOFT iQ Works	236
SW1D5C-QTIU-E	MELSOFT iQ Works	236
SW1D5-FXENETL-E	Engineering and Programming Software FX _{3U} -ENET-L setup tool	200
SW1D5-FXENETL-J	Engineering and Programming Software FX _{3U} -ENET-L setup tool	200
SW1DNC-ACTAND-B	Engineering and Programming Software MX Component for Android™	200
SW1DNC-CWSIM-E	CW-Sim	238
SW1DNC-CWSIM-EZ	CW-Sim	238
SW1DNC-CWSIMSA-E	CW-Sim	238
SW1DNC-FBDQMON-E	Engineering and Programming Software PX Developer monitoring tool	200, 237

Model	Product name	Page
SW1DNC-FBDQMON-J	Engineering and Programming Software PX Developer monitoring tool	200, 236
SW1DNC-GTWK3-E	MELSOFT iQ Works	236
SW1DNC-GXW2-E	Engineering and Programming Software GX Works2	200, 236
SW1DNC-GXW2-J	Engineering and Programming Software GX Works2	200, 236
SW1DNC-IQWK-E	MELSOFT iQ Works	263
SW1DNC-MESIF-E	Engineering and Programming Software MX MESInterface	200, 237
SW1DNC-MESIF-J	Engineering and Programming Software MX MESInterface	200
SW1DNC-MTW2-E	MELSOFT iQ Works	236
SW1DND-CWWLQ12-E	CW Workbench	238
SW1DND-CWWLQ12-EVZ	CW Workbench	238
SW1DND-CWWLQ12-EZ	CW Workbench	238
SW1DND-CWWLQ24-E	CW Workbench	238
SW1DND-CWWLQ24-EVZ	CW Workbench	238
SW1DND-CWWLQ24-EZ	CW Workbench	238
SW1DND-GTWK3-□	HMI/GOT Screen Design Software MELSOFT GT Works3	622, 627
SW1DND-GXW2-E	Motion controller software MELSOFT GX Works2	263
SW1DND-GXW3-E	Engineering and Programming Software GX Works3	200, 210, 236
SW1DND-GXW3-J	Engineering and Programming Software GX Works3	200
SW1DND-IQWK-E	MELSOFT iQ Works	236, 627
SW1DND-MTW2-E	Motion controller software MELSOFT MT Works2	263
SW1DND-RCCPU-E	Engineering and Programming Software CW Configurator	200
SW1DND-RCCPU-J	Engineering and Programming Software CW Configurator	200
SW1DND-RMESIF-E	Engineering and Programming Software MX MESInterface-R	200
SW1DND-RMESIF-J	Engineering and Programming Software MX MESInterface-R	200
SW1DNN-DCUTL-E	Engineering and Programming Software High-speed data communication unit tool	200
SW1DNN-DCUTL-J	Engineering and Programming Software High-speed data communication unit tool	200
SW1DNN-DLUTL-E	Engineering and Programming Software Tool for high-speed data logger unit	200
SW1DNN-DLUTL-J	Engineering and Programming Software Tool for high-speed data logger unit	200
SW1DNN-LLUTL-M	Engineering and Programming Software CPU unit logging setup tool	200
SW1DNN-NLUTL-E	Engineering and Programming Software BOX data logger setup tool	200
SW1DNN-NLUTL-J	Engineering and Programming Software BOX data logger setup tool	200
SW1DNN-RDLUTL-E	Engineering and Programming Software Tool for high-speed data logger unit	200
SW1DNN-RDLUTL-J	Engineering and Programming Software Tool for high-speed data logger unit	200
SW1DNN-VIEWER-M	Engineering and Programming Software GX LogViewer	200
SW1DNN-WS0ADR-B	Engineering and Programming Software Safety controller setup and monitoring tools	200, 227
SW1IVD-AD51HP	MELSEC-Q Series Information module	220
SW1MIC-ACTIOS-B	Engineering and Programming Software MX Component for iOS	200
SW2D5C-EXP-E	MELSOFT iQ Works	237

Index

Model	Product name	Page
SW2D5C-QADU-E	MELSOFT iQ Works	236
SW2D5C-QD75P-E	MELSOFT iQ Works	236
SW2D5C-QDAU-E	MELSOFT iQ Works	236
SW2D5C-QSCU-E	MELSOFT iQ Works	236
SW2D5C-RAS-E	MELSOFT iQ Works	237
SW2DNC-SHEET-E	Engineering and Programming Software MX Sheet	200, 237
SW2DNC-SHEET-J	Engineering and Programming Software MX Sheet	200
SW2DNC-SHEETSET-E	MELSOFT iQ Works	237
SW2DND-IQWK-E	MELSEC iQ-F Series Software package	210, 622
SW3D5C-FBDGPP-E	MELSOFT iQ Works	237
SW3PVC-CCPU-E	C-language controller setup and monitoring tools	200, 238
SW3PVC-CCPU-J	C-language controller setup and monitoring tools	200, 237
SW4D5C-QSET-E	MELSOFT iQ Works	237
SW4DNC-ACT-E	Engineering and Programming Software MX Component	200, 237
SW4DNC-ACT-J	Engineering and Programming Software MX Component	200
SW4PVC-CCPU-E	C-language controller setup and monitoring tools	200, 238
SW4PVC-CCPU-J	C-language controller setup and monitoring tools	200
SW7D5C-LLT-E	Engineering and Programming Software GX Simulator	200, 236
SW7D5C-LLT-EV	MELSOFT iQ Works	236
SW7D5C-LLT-J	Engineering and Programming Software GX Simulator	200
SW8D5C-GPPLT-E	MELSOFT iQ Works	237
SW8D5C-GPPW-E	Engineering and Programming Software GX Developer	200, 236
SW8D5C-GPPW-EV	MELSOFT iQ Works	236
SW8D5C-GPPW-J	Engineering and Programming Software GX Developer	200
SW8DNC-SV1322QJLSET	Operating system software set for Q17nDSCPU/Q170MSCPU	254
T		
TH-N□□□	Magnetic Starters Thermal Overload Relays	883, 885
TH-N□□□(+CT)	Magnetic Starters Combined Thermal Overload Relays	872
TH-N□□□(KP)	Magnetic Starters Combined Thermal Overload Relays	876
TH-N□□□(TA)	Magnetic Starters Combined Thermal Overload Relays	872
TH-N□□□(TA)KP	Magnetic Starters Combined Thermal Overload Relays	872
TH-N□□□HZ	Magnetic Starters Thermal Overload Relays	883, 884, 885
TH-N□□□HZKP	Magnetic Starters Thermal Overload Relays	883, 884
TH-N□□□KP	Magnetic Starters Thermal Overload Relays	883
TH-N□□□KP(+CT)	Magnetic Starters Combined Thermal Overload Relays	872
TH-N□□□RH	Magnetic Starters Combined Thermal Overload Relays	872, 883, 884, 885
TH-N□□□RH(KP)	Magnetic Starters Combined Thermal Overload Relays	876
TH-N□□□RHKP	Magnetic Starters Combined Thermal Overload Relays	872, 883, 884

Model	Product name	Page
TH-N□□□TA	Magnetic Starters Thermal Overload Relays	883, 885, 876
TH-N□□□TA(KP)	Magnetic Starters Thermal Overload Relays	876
TH-N□□□TAHZ	Magnetic Starters Thermal Overload Relays	883, 885
TH-N□□□TAHZKP	Magnetic Starters Thermal Overload Relays	883
TH-N□□□TAKP	Magnetic Starters Thermal Overload Relays	883
TH-N600	Magnetic Starters Thermal Overload Relays	884
TH-N600KP	Magnetic Starters Thermal Overload Relays	884
TH-T□□	Magnetic Starters Combined Thermal Overload Relays	871, 874, 881, 882, 885
TH-T□□KP	Magnetic Starters Combined Thermal Overload Relays	871, 881, 882
TM-RFM002C20	TM-RFM Series Direct drive motor	401, 403, 405
TM-RFM004C20	TM-RFM Series Direct drive motor	401, 403, 405
TM-RFM006C20	TM-RFM Series Direct drive motor	401, 403, 405
TM-RFM006E20	TM-RFM Series Direct drive motor	401, 403, 405
TM-RFM012E20	TM-RFM Series Direct drive motor	401, 403, 405
TM-RFM012G20	TM-RFM Series Direct drive motor	402, 403, 406
TM-RFM018E20	TM-RFM Series Direct drive motor	401, 403, 405
TM-RFM040J10	TM-RFM Series Direct drive motor	402, 403, 406
TM-RFM048G20	TM-RFM Series Direct drive motor	402, 403, 406
TM-RFM072G20	TM-RFM Series Direct drive motor	402, 403, 406
TM-RFM120J10	TM-RFM Series Direct drive motor	402, 403, 406
TM-RFM240J10	TM-RFM Series Direct drive motor	402, 403, 406
U		
UA-DR1	Solid State Contactors (Standard Models)	892, 893
UA-PC	Solid State Contactors (Standard Models)	892, 893
UA-RE	Solid State Contactors (Standard Models)	892, 893
UA-SH1	Solid State Contactors (Standard Models)	892, 893
UA-SH8	Solid State Contactors (Standard Models)	892
UN-AX□(CX)	MS-T/N series Optional Units	890
UN-AX□□	MS-T/N series Optional Units	890
UN-AX□□(CX)	MS-T/N series Optional Units	890
UN-AX□□□	MS-T/N series Optional Units	890
UN-CV□	MS-T/N series Optional Units	890
UN-CV□0	MS-T/N series Optional Units	890
UN-CV□2	MS-T/N series Optional Units	890
UN-CV251	MS-T/N series Optional Units	890
UN-CW□	MS-T/N series Optional Units	890
UN-CZ□0	MS-T/N series Optional Units	890
UN-CZ□1	MS-T/N series Optional Units	890

Model	Product name	Page
UN-CZ□2	MS-T/N series Optional Units	890
UN-CZ□4	MS-T/N series Optional Units	890
UN-CZ605	MS-T/N series Optional Units	890
UN-FD	Solid State Contactors (Standard Models)	892, 893
UN-FD□(CX)	MS-T/N series Optional Units	891
UN-LL□□(CX)	MS-T/N series Optional Units	890
UN-ML□	MS-T/N series Optional Units	891
UN-RM20	MS-T/N series Optional Units	891
UN-RR□	MS-T/N series Optional Units	891
UN-SA□□	MS-T/N series Optional Units	891
UN-SA□□□	MS-T/N series Optional Units	891
UN-SA□3	MS-T/N series Optional Units	891
UN-SA33	MS-T/N series Optional Units	891
UN-SD□	MS-T/N series Optional Units	891
UN-SG□	MS-T/N series Optional Units	891
UN-SY□□	MS-T/N series Optional Units	890
UN-SY□□(CX)	MS-T/N series Optional Units	890
UN-TH□	MS-T/N series Optional Units	891
UN-TL□	MS-T/N series Optional Units	891
UN-YD□	MS-T/N series Optional Units	891
UN-YG□	MS-T/N series Optional Units	891
UN-YY□	MS-T/N series Optional Units	891
US-H□□	Solid State Contactor	893
US-H□□DD	Solid State Contactor	893
US-K□□□	Solid State Contactors (Standard Models)	893
US-K□□□TE	Solid State Contactors (Standard Models)	893
US-K70	Solid State Contactors (Standard Models)	892
US-KD8	Solid State Contactor (For Direct Current Load)	893
US-KH□□□	Solid State Contactors (Standard Models)	893
US-KH□□□TE	Solid State Contactors (Standard Models)	893
US-KH70	Solid State Contactors (Standard Models)	892
US-N□□	Solid State Contactors (Standard Models)	892
US-N□□NS	Solid State Contactors (Standard Models)	892
US-N□□NSTE	Solid State Contactors (Standard Models)	892
US-N□□TE	Solid State Contactors (Standard Models)	892
US-N□SS	Solid State Contactors (Standard Models)	892
US-N□SSTE	Solid State Contactors (Standard Models)	892
US-NH□□NS	Solid State Contactors (Standard Models)	892

Model	Product name	Page
US-NH□□NSTE	Solid State Contactors (Standard Models)	892
UT-2B4	Motor Circuit Breakers Bus bar	900
UT-2B5	Motor Circuit Breakers Bus bar	900
UT-3B4	Motor Circuit Breakers Bus bar	900
UT-3B5	Motor Circuit Breakers Bus bar	900
UT-AX□	MS-T series Optional Units	889
UT-AX□(BC)	MS-T/N series Optional Units	890
UT-AX□□	MS-T series Optional Units	889
UT-AX□□(BC)	MS-T/N series Optional Units	890
UT-BT20	Motor Circuit Breakers Mounting base unit	900
UT-BT32	Motor Circuit Breakers Mounting base unit	900
UT-BT32D	Motor Circuit Breakers Mounting base unit	900
UT-CV□	MS-T/N series Optional Units	890
UT-CV3	Motor Circuit Breakers Line side terminal adapter kit	900
UT-CW□	MS-T/N series Optional Units	890
UT-EP3	Motor Circuit Breakers 3 phase feed-in terminal	900
UT-HZ18(BC)	MS-T/N series Optional Units	891
UT-MAL	Motor Circuit Breakers	898, 900
UT-MALLL	Motor Circuit Breakers	898, 900
UT-MAX	Motor Circuit Breakers	898, 900
UT-MAXLL	Motor Circuit Breakers	898, 900
UT-ML□□	MS-T series Optional Units	889
UT-ML□□(BC)	MS-T/N series Optional Units	891
UT-MQ12	Motor Circuit Breakers Connection conductor unit	900
UT-MT20	Motor Circuit Breakers Connection conductor unit	900
UT-MT20D	Motor Circuit Breakers Connection conductor unit	900
UT-MT32	Motor Circuit Breakers Connection conductor unit	900
UT-MT32D	Motor Circuit Breakers Connection conductor unit	900
UT-RR□	MS-T/N series Optional Units	891
UT-RT10	Motor Circuit Breakers Jointing block unit	900
UT-RT20	Motor Circuit Breakers Jointing block unit	900
UT-RT32	Motor Circuit Breakers Jointing block unit	900
UT-SA□□	MS-T series Optional Units	889, 891
UT-SA□3	MS-T/N series Optional Units	891
UT-SA33□	MS-T/N series Optional Units	891
UT-SD□	MS-T/N series Optional Units	891
UT-SG□	MS-T/N series Optional Units	891
UT-SY□□(BC)	MS-T/N series Optional Units	890

Index

Model	Product name	Page
UT-TH50	MS-T/N series Optional Units	891
UT-TU	Motor Circuit Breakers Short-circuit indicator unit	900
UT-YD20	MS-T/N series Optional Units	891
W		
WS0-4RO4002	MELSEC-QS/WS Series Relay output	155
WS0-4RO4002 (WS0-4RO)	MELSEC-QS/WS Series Safety Controller	227
WS0-C20R2	MELSEC-QS/WS Series Safety Controller	227
WS0-CPU0	MELSEC-QS/WS Series CPU module	159
WS0-CPU000200	MELSEC-QS/WS Series Safety Controller CPU Module	154
WS0-CPU000200 (WS0-CPU0)	MELSEC-QS/WS Series Safety Controller	227
WS0-CPU1	MELSEC-QS/WS Series CPU module	159
WS0-CPU130202	MELSEC-QS/WS Series Safety Controller CPU Module	154
WS0-CPU130202 (WS0-CPU1)	MELSEC-QS/WS Series Safety Controller	227
WS0-CPU3	MELSEC-QS/WS Series CPU module	159
WS0-CPU320202	MELSEC-QS/WS Series Safety Controller CPU Module	154
WS0-GCC100202	MELSEC-QS/WS Series Network Module	155, 232
WS0-GCC100202 (WS0-GCC1)	MELSEC-QS/WS Series Safety Controller	227
WS0-GETH00200	MELSEC-QS/WS Series Network Module	155
WS0-GETH00200 (WS0-GETH)	MELSEC-QS/WS Series Safety Controller	227
WS0-MPL00201 (WS0-MPL)	MELSEC-QS/WS Series Safety Controller	227

Model	Product name	Page
WS0-TBC4	MELSEC-QS/WS Series Safety Controller	227
WS0-TBS4	MELSEC-QS/WS Series Safety Controller	227
WS0-UC-232A	MELSEC-QS/WS Series Safety Controller	227
WS0-XTDI80202	MELSEC-QS/WS Series DC input	155
WS0-XTDI80202 (WS0-XTDI)	MELSEC-QS/WS Series Safety Controller	227
WS0-XTIO84202	MELSEC-QS/WS Series DC input/Transistor output	155
WS0-XTIO84202 (WS0-XTIO)	MELSEC-QS/WS Series Safety Controller	227
Z		
ZT□□B	Interchangeable ZCT	713
ZT100B	EcoMonitorLight Through-type Zero-phase Current Transformer	949
ZT1200A	EcoMonitorLight Zero-phase Current Transformer with Primary Conductor	949
ZT15B	EcoMonitorLight Through-type Zero-phase Current Transformer	949
ZT2000A	EcoMonitorLight Zero-phase Current Transformer with Primary Conductor	949
ZT30B	EcoMonitorLight Through-type Zero-phase Current Transformer	949
ZT40B	EcoMonitorLight Through-type Zero-phase Current Transformer	949
ZT600A	EcoMonitorLight Zero-phase Current Transformer with Primary Conductor	949
ZT60B	EcoMonitorLight Through-type Zero-phase Current Transformer	949
ZT80B	EcoMonitorLight Through-type Zero-phase Current Transformer	949
ZTA□□□A	Interchangeable ZCTs with primary conductor	713

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