

General Specifications

MX100/MW100 Specifications

GS 04M10A01-01E

1. MX100 and MW100 Hardware Specification

		MX100	MW100	
Logging type		Mainly PC measurement	Mainly standalone measurement and distributed remote measurement	
Style No.		S3	S3	
Maximum number of connectable channels (per unit)		60	60	
Maximum number of connectable modules (per unit)		6	6	
Total maximum number of connectable channels		1200 (20 units × 6 modules)	360 (6 units × 6 modules)	
Display monitor system		Through MX100 software or API	Through a Web browser	
Environmental worthiness (operating temperature range1)		0 to 50°C	-20 to 60°C (or -20 to 50°C when using the MX120 or MX125 output modules)	
Data save method	Save operation	Save on the PC (can be saved to CF card with the /DS option)	Save to CF card	
	Save start/stop	Executed on the PC.	Executed using the START/STOP panel key, communication commands, or web browsers.	
Supported external media		CF card (up to 2 GB supported), Type I × 1 slot (The MX100 supports Type II)		
Measurement interval	Basic measurement interval	10, 50, 100, 200, 500 ms, 1, 2, 5, 10, 20, 30, 60 sec. However, the measurement interval that can be set differs from module to module. For the measurement interval and number of measurable channels, see 4. "Acquisition Speed & Save Time."		
	Multi-interval	Up to 3 measurement groups/measurement intervals can be set		
Display type		2 × 7-segment display		
Alarms (alarm functions)	Other	—		
	Main unit alarm types	Upper limit, lower limit, differential upper limit, and differential lower limit	Upper limit, lower limit, differential upper limit, and differential lower limit, high limit on rate-of-change, low limit on rate of change, Delay alarm	
	Number of alarms	4 levels per channel	4 levels per channel	
Number of relay outputs		1 to 60 points depending on the number of mounted DO modules		
Standard interfaces		100Base-TX/10Base-T (auto detect), Ethernet		
FTP function		—	Y	
E-mail function		—	Y	
DHCP client function		—	Y	
SNTP function		—	Y	
HTTP function		—	Y (Windows 2000/XP/Vista, Internet Explorer 5.5 or later)	
ModbusTCP (server/client)		—	Y (as client, requires /M1)	
ModbusRTU (master/slave)		—	Options (as Master, requires /M1)	
EtherNet/IP		—	Y	
RS-232		—	Options	
RS-422/485		—	Options	
Availability		Comes standard (execute using PC software)	Optional (function added to main unit)	
Number of channels for computation		60 (Can also be set for communication input on the MW)		
Number of channels for communication input		—	240	
Computations		Basic MATH functions, relational operations, logical operations, arithmetic operations, TLOG computation, and conditional expressions	Basic MATH functions, relational operations, logical operations, arithmetic operations, TLOG computation, CLOG computation, and conditional expressions	
MATH interval		100 ms or more (can be assigned)		
Report function		—	Hourly, Daily, Weekly, Monthly (option)	
Normal operating conditions	Rated power supply voltage	AC power	100 to 240 VAC	
		DC power	12 to 28 VDC	
	Power supply voltage	AC power	90 to 250 VAC	
		DC power	10 to 32 VDC	
	Power supply frequency		50 Hz ± 2%, 60 Hz ± 2%	
	Power consumption	AC power	Up to approximately 70 VA (when 6 modules)	
		DC power	Up to approximately 35 VA (when 6 modules)	
	Withstand voltage	AC power	1500 VAC (50/60 Hz) the power supply terminal and earth terminal	
		DC power	1000 VAC (50/60 Hz) the power supply terminal and earth terminal	
	Insulation resistance		Power supply terminals and ground, 20 MΩ or more (500 VDC)	
Supported standards		CSA, UL (CSANRTL/C), CE, C-Tick		
Structure	External dimensions (mm)	Approximately 92 (W) × 131 (H) × 163 (D)	Approximately 105 (W) × 131 (H) × 163 (D)	
	Weight	Approximately 4.1 kg (when 6 modules)	Approximately 4.3 kg (when 6 modules)	
Main unit power consumption		Approximately 8 W		
Clock accuracy		± 100 ppm		
Application software	Included software	Name	MX100 Standard Software	
		OS	Windows 2000/XP/Vista	
		MX100 Viewer Software	Windows 2000/XP/Vista	

Standard Configuration (MX and MW)

Base plate MX150
(For specifications, see section 4. "Accessories.")

Input/Output Modules
(For specifications, see section 2. "Input/Output Module Specifications.")

Main Module MX100 or MW100
(For specifications, see section 1. "Main Unit Specifications.")

The MX can be configured for your specific measurement needs by combining the main module, input/output modules, and a base plate. Assembled units can be used as-is on the desktop, or can be rack- or panel-mounted with provided DIN rails (DIN rail mounting brackets come standard with the MX150).

Multi-Channel Measurement

MX100
Using the MXLOGGER dedicated PC software you can combine up to 20 units of the MX100 and perform data acquisition collectively on up to 1200 channels.

MW100
Using the Modbus/TCP function, the MW100 can connect to other MW100s and acquire data collectively on up to 360 channels (requires the /M1 option on the client side).

Up to 20 units

360 ch = (client 60 ch) × (server 60 ch × 5)

⑥⑦⑧ 4-CH Medium-Speed Strain Input Module

Module number	MX112-□□□-M04	
-B12	Built-in bridge resistance: 120 Ω	
-B35	Built-in bridge resistance: 350 Ω	
-NDI	NDIS connector for connection to external bridge head and strain gauge type converters	
Style number	S2	
Number of inputs	4	
Measurement interval	100 ms (shortest)	
Types of measurement	Strain gauge or strain gauge type sensor (static strain)	
A/D resolution	±20000 (excluding 1.67 ms integral time)	
Power consumption	Approximately 3 W	
External dimensions (mm)	Approximately 57 × 131 × 151 (including terminal cover)	
Terminal type	-B12 and -B35 are clamp terminals. Plate with removable clamp terminals. -NDI is an NDIS connector.	
Applicable cable size	(-B12, -B35) 0.14 to 1.5 mm ² (AWG 26 to 16)	
Withstand voltage (-NDI is not applicable)	Between input terminals and ground	2300 VACrms (50/60 Hz), for one minute
Normal-mode rejection ratio:	For integral time of 16.67 ms or more, 40 dB or more (50/60 Hz ±0.1%) 50/60 Hz not rejected when the integral time is 1.67 ms. (voltage conversion value given a bridge voltage of 2 V)	
Common-mode voltage	-B12, -B35: 30 VAC rms (50/60 Hz) between channels, 250 VAC rms (50/60 Hz) between input and ground -NDI: 30 VACrms (50/60 Hz) between channels, 30 VACrms (50/60 Hz) between input and ground (Note that the connector shell is connected to earth potential)	
Common-mode rejection ratio	When the integral time is 16.67 ms or more, 120 dB or more When the integral time is 1.67 ms, 80 dB or more (voltage conversion value at 50/60 Hz ±0.1%, bridge voltage of 2 V)	

• Measurement ranges and accuracies (1 gauge method conversion, other gauge methods use conversion by scaling)

The accuracy compatible with standard operating conditions.
Ambient temperature: 23 ± 2°C, ambient humidity: 55 ± 10% RH, supply voltage: 90 to 250 VAC, power frequency: 50/60 Hz ± 1%, warm-up time: 30 minutes or more, without adverse conditions such as vibrations.

Measurement range	Measuring range	Integral time 16.67 ms or more		Integral time 1.67 ms	
		Measurement Accuracy	Resolution	Measurement Accuracy	Resolution
2000 μ strain	±2000.0 μ strain	±0.5% of range	0.1 μ strain	2% of range	1 μ strain
20000 μ strain	±20000 μ strain	±0.3% of range	1 μ strain	1% of range	2 μ strain
200000 μ strain	±200000 μ strain	±0.3% of range	10 μ strain	1% of range	10 μ strain

Bridge resistance accuracy (-B12, -B35): ±0.01% ± 5ppm/°C
Input/output resistance: 1 M_Ω or more
Effect of wiring resistance: No correction for wiring resistance (with -B12 or -B35). Depends on the gauge resistance. For -NDI, 50 ppm of rdg./ (using remote sensing wire).
Temperature coefficient: ±100 ppm of range/°C



⑥ 4-CH Medium-Speed Strain Input Module MX112-B12-M04



⑦ 4-CH Medium-Speed Strain Input Module MX112-B35-M04



⑧ 4-CH Medium-Speed Strain Input Module MX112-NDI-M04

⑨ 10-CH, Pulse Input Module

Module number	MX114-PLS-M10	
Style number	S3 (Dedicated MW100, N/A:MX100) MX100 can use only API (MX190)	
Number of inputs	10	
Measurement interval	100 ms (shortest)	
Types of measurement	Non-voltage contact, level (5 V logic), and open collector	
Input type	Pull-up with approx. 5 V/5 kΩ, common voltage within the same module	
Measurement mode	RATE (numbers of count measuring mode), a mode which outputs the number of pulse inputted by set interval	
Input range	30000 counts/measurement interval (however, 10000 counts/sec at the fastest)	
Setting span	0 to 30000 (however, plus over if the number of maximum counts in the measurement interval exceeds 31500.)	
Measurement accuracy	The number of counts ±1 pulse	
Chattering elimination filter	Chattering elimination filter up to 5 ms (ON/OFF switching for every channels)	
TLOG.PSUM calculation limit	0 to 99999999 (8 digits excluding a decimal position)	
Minimum detection pulse width	40 μs	
Input threshold level		
Non-voltage contact or open collector	Count every change when the value of 100 kΩ or above changes to the value of 100 Ω or below.	
Level (5 V logic)	Count every change when the value of 1 V or below changes to 3 V or above.	
Hysteresis width	Approximately 0.1 V	
Contact, transistor rating	Contact with a rating of 15 VDC or more, and 30 mA or more Transistor with a rating of Vce >15 VDC and Ic >30 mA	
Maximum input voltage	±10 VDC	
Power consumption	Approximately 1.5 W	
External dimensions (mm)	Approximately 57 × 131 × 151 (including terminal cover)	
Terminal type	Clamp. Plate with removal clamp terminals	
Applicable cable size	0.14 to 1.5 mm ² (AWG 26 to 16)	
Withstand voltage	Between input terminals and ground	2300 VACrms (50/60 Hz). For one minute
Common mode voltage	Between input terminals and ground	250 VACrms (50/60 Hz)
Insulation resistance	Between input terminals and ground	20 MΩ or more (500 VDC)



⑨ 10-CH, Pulse Input Module MX114-PLS-M10

⑩ 10-CH, High-Speed 5 V Digital Input Module

Module number	MX115-D05-H10	
Style number	S1	
Number of inputs	10	
Input threshold level:	Contact (non-voltage contact, open collector): 100 Ω or less, ON, 100 kΩ or more, OFF LEVEL (5-V logic): OFF at 1 V or less and ON at 3 V or more	
Measurement interval	10 ms (shortest)	
Types of measurement	Non-voltage contact, level (5-V logic), and open collector	
Input type	Pull-up with approx. 5 V/5 kΩ, common voltage within the same module	
Measurement mode	RATE (numbers of count measuring mode), a mode which outputs the number of pulse inputted by set interval	
Input range	30000 counts/measurement interval (however, 10000 counts/sec at the fastest)	
Setting span	0 to 30000 (however, plus over if the number of maximum counts in the measurement interval exceeds 31500.)	
Measurement accuracy	The number of counts ±1 pulse	
Chattering elimination filter	Chattering elimination filter up to 5 ms (ON/OFF switching for every channels)	
TLOG.PSUM calculation limit	0 to 99999999 (8 digits excluding a decimal position)	
Minimum detection pulse width	Twice the sampling interval or more	
Input threshold level		
Non-voltage contact or open collector	100 Ω or less: ON, 100 kΩ or more: OFF	
Level (5 V logic)	1 V or less: OFF, 3 V or more: ON	
Hysteresis width	Approximately 0.1 V	
Contact, transistor rating	Contact with a rating of 15 VDC or more, and 30 mA or more Transistor with a rating of Vce > 15 VDC and Ic > 30 mA	
Maximum input voltage	±10 VDC	
Power consumption	Approximately 1.5 W	
External dimensions (mm)	Approximately 57 × 131 × 151 (including terminal cover)	
Terminal type	Clamp. Plate with removable clamp terminals	
Applicable cable size	0.14 to 1.5 mm ² (AWG 26 to 16)	
Withstand voltage	Between input terminals and ground	2300 VACrms (50/60 Hz), for one minute
Common mode voltage	Between input terminals and ground	250 VACrms (50/60 Hz)
Insulation resistance	Between input terminals and ground	20 MΩ or more (500 VDC)

⑪ 10-CH, High-Speed 24 V Digital Input Module

Module number	MX115-D24-H10	
Style number	S2	
Number of inputs	10	
Input threshold level:	LEVEL (24-V logic): OFF at 6 V or less and ON at 16 V or greater	
Measurement Interval	10 ms (shortest)	
Types of measurement	Level (24 V logic)	
Minimum detection pulse width	Twice the sampling interval or more	
Input threshold level	6 V or less: OFF, 16 V or more: ON	
Hysteresis width	Approximately 1.5 V.	
Maximum input voltage	50 VDC	
Power consumption	Approximately 1.5 W	
External dimensions (mm)	Approximately 57 × 131 × 151 (including terminal cover)	
Terminal type	Clamp. Plate with removable clamp terminals removable	
Applicable cable size	0.14 to 1.5 mm ² (AWG 26 to 16)	
Withstand voltage	Between input terminals and ground	2300 VACrms (50/60 Hz), for one minute
Common mode voltage	Between input terminals and ground	250 VACrms (50/60 Hz)
Insulation resistance	Between input terminals and ground	20 MΩ or more (500 VDC)

⑫ 10-CH, Medium-Speed Digital Output Module

Module number	MX125-MKC-M10	
Style number	S1	
Number of outputs	10	
Contact mode	A contact (SPST) You can set the operation type, excitation status, hold, operation	
Output update interval	Outputs every 100 ms (not synchronized to the measurement interval)	
Output types	Alarm output. Command output, failure output, error output, low free space on media error output.	
Contact capacity	250 VDC/0.1 A, 250 VAC/2 A, or 30 VDC/2A (load resistance)	
Contact lifespan	Approximately 100,000 times at rated load or 20 million times with no load.	
Power consumption	Approximately 2 W (All relay:ON)	
External dimensions (mm)	Approximately 57 × 131 × 151 (including terminal cover)	
Terminal type	Clamp. Removable in units of 5 ch.	
Applicable cable size	0.08 to 2.5 mm ² (AWG 28 to 12)	
Withstand voltage	Between output terminals and ground	2300 VACrms (50/60 Hz), for one minute
	Between output terminals	2300 VACrms (50/60 Hz), for one minute
Common mode voltage	Between output terminals and ground	250 VACrms (50/60 Hz)
Insulation resistance	Between output terminals and ground	20 MΩ or more (500 VDC)
	Between output terminals	20 MΩ or more (500 VDC)



⑩ 10-CH, High-Speed 5 V Digital Input Module MX115-D05-H10



⑪ 10-CH, High-Speed 24 V Digital Input Module MX115-D24-H10



⑫ 10-CH, Medium-Speed Digital Output Module MX125-MKC-M10

⑬ 8-CH, Medium-Speed PWM Output Module

Module number	MX120-PWM-M08	
Style number	S2	
Number of outputs	8	
Pulse (output) interval	1 ms to 300 S	
Output update Interval	100 msec	
Output data	Command output Transmission output Output on power ON, output on abnormality (error), output upon ± Over	
Pulse interval accuracy	± 100 ppm of setting value	
Output capacity	1A/ch max, however, 4 A or less total per module (a current limit circuit of approximately 1 A is built in)	
External power supply	4 to 28 V (External power supply sourcing)	
Power consumption	Approximately 2.5 W	
External dimensions (mm)	Approximately 57 × 131 × 151 (including terminal cover)	
Terminal type	Clamp. Removable in units of 4 ch.	
Applicable cable size	0.08 to 2.5 mm ² (AWG 28 to 12)	
Withstand Voltage	Between output terminals and ground	2300 VACrms (50/60 Hz), for one minute
	Between output terminals	Non-isolated
Common mode voltage	Between output terminals and ground	250 VACrms (50/60 Hz)
Insulation resistance	Between output terminals and ground	20 MΩ or more (500 VDC)
	Between output terminals	Non-isolated



⑬ 8-CH, Medium-Speed PWM Output Module
MX120-PWM-M08

⑭ 8-CH, Medium-Speed Analog Output Module

Module number	MX120-VAO-M08	
Style number	S2	
Number of outputs	8	
Output update interval	100 msec	
Output type	DC voltage, DC current	
Output data	Command output Transmission output Output on power ON, output on abnormality (error), output upon ± Over	
Rated output range	Voltage	-10 V to 10 V
	Current	0 to 20 mA (sourcing 1 to 5 V; 4 to 20 mA)
Maximum allowable output range	Voltage	-11 V to 11 V
	Current	0 to 22 mA
Load resistance	Voltage: 5 k Ω or more, current: 600 Ω or less	
Accuracy (at rated output)	± 0.2% of F.S or more (F.S. = 10 V or 20 mA)	
Output resolution	12 bit of F.S or greater	
External power supply (required for current output)	24 V ±10%, allowable current 250 mA or more (external power supply not required for output of voltage only)	
Power consumption	Approximately 2.5 W	
External dimensions (mm)	Approximately 57 × 131 × 151 (including terminal cover)	
Terminal type	Clamp. Removable in units of 4 ch.	
Applicable cable size	0.08 to 2.5 mm ² (AWG 28 to 12)	
Withstand voltage	Between output terminals and ground	2300 VACrms (50/60 Hz), for one minute
	Between output terminals, non-isolated	(minus terminals common potential)
Common mode voltage	Between output terminals and ground	250 VACrms (50/60 Hz)
Insulation resistance	Between output terminals and ground	20 MΩ or more (500 VDC)
	Between output terminals, non-isolated	(minus terminals common potential)



⑭ 8-CH, Medium-Speed Analog Output Module
MX120-VAO-M08

3. Acquisition Speed and Recording Time

Table of Shortest Measurement Intervals (when MX110)

interval	MAX. number of channels	
	MX100	MW100
10 ms	24 ch *1	10 ch
50 ms	120 ch *1	30 ch
100 ms	300 ch *1	60 ch
200 ms	500 ch *1	—
500 ms	600 ch *1	—
1 s	1200 ch *1	—

MX100: The relationship between the measurement interval and number of channels depends greatly on the performance of the PC.

*1 Maximum number of channels when using MXLOGGER.

Storage capacity in terms of time by CF card size

Select the CF card according to the required data recording time.

Channels	interval	128 MB	512 MB	1 GB	2 GB
10 ch	10 ms	8.8 hours	1.4 days	2.8 days	5.6 days
	100 ms	3.7 days	14.8 days	28.9 days	57 days
	500 ms	18.5 days	74 days	144 days	288 days
	1 s	37 days	148 days	289 days	578 days
	2 s	74 days	296 days	578 days	1156 days
	5 s	185 days	740 days	1446 days	2892 days
20 ch	100 ms	1.8 days	7.4 days	14.4 days	28.8 days
	500 ms	9.2 days	37 days	72.3 days	144 days
	1 s	18.5 days	74 days	144 days	288 days
	2 s	37 days	148 days	289 days	578 days
60 ch	5 s	92.5 days	370 days	723 days	1445 days
	100 ms	14.8 hours	2.4 days	4.8 days	9.5 days
	500 ms	3 days	12.3 days	24.1 days	48.2 days
	1 s	6.1 days	24.6 days	48.2 days	96.4 days
	2 s	12.3 days	49.3 days	96.4 days	192 days
5 s	30.8 days	123 days	241 days	482 days	

Note that saving to the CF card is performed arbitrarily on the MX100 when the /DS option is installed (on the standard MX100, the card is used for automatic backup when communications are disconnected).

■ Hardware Specifications

Common Specifications

Vibration:	10-60 Hz, 0.2 m/s ² or less
Shock:	Not allowed
Magnetic field:	400 A/m or less (50/60 Hz)
Position:	Position horizontally with feet down
Usage location:	Indoors
Operating altitude:	2,000 m or less
Overvoltage category:	II (per IEC61010-1 and CSA C22.2 No.61010-1)
Measurement category:	II (per IEC61010-1 and CSA C22.2 No.61010-1)
Degree of pollution:	2 (per IEC61010-1 and CSA C22.2 No.61010-1)

*1: Not including operating temperature range specification of accessory AC power cord and AC adapter. The operating temperature range specifications of the AC power supply cord and AC adapter are as shown below.

Suffix code in the model name	Standard applicable to included power cord	Operating temperature
-1D	UL/CSA	-20-60°C
-1F	VDE	-15-60°C
-1R	SAA	-15-60°C
-1Q	BS	-15-60°C
-1H	GB (CCC)	-15-60°C

The operating temperature range of the AC adapter is 0 to 40°C.

*2: The operating humidity range of the AC adapter is 20-80% RH at 0-40°C. (no condensation)

*3: No condensation

• Shipping and Storage Conditions

Environmental conditions for the transportation/storage of equipment from the time of delivery until the start of use, as well as for the transportation/storage when the use of equipment is temporarily suspended.

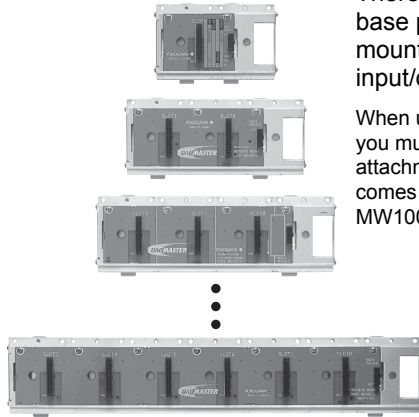
Storage ambient temperature:	-25-70°C
Storage ambient humidity:	5-95%RH (or 10-90%RH for the AC adapter)
Vibration:	10-60 Hz, 4.9 m/s ² or less
Shock:	392 m/s ² or less (when packaged)

CSA	Obtained CSA22.2 No.61010-1, Overvoltage category: II, Measurement category: II, Degree of pollution: 2	
UL	Obtained UL61010B-1 (CSA NRTL/C)	
CE	EMC directive	EN61326, EN61000-3-2, EN61000-3-3, EN55011 Class A Group 1
	Low voltage directive	EN61010-1, Overvoltage category: II, Measurement category: II, Degree of pollution: 2
C-Tick	Obtained AS/NZS CISPR11 Class A Group 1	

4. Accessories

Base plate

MX150



There are six types of base plate available for mounting 1 to 6 input/output modules.

When used for the MW100, you must replace the attachment with the one that comes standard with the MW100.

Accessories



• Connector cover
Connector cover for open slots

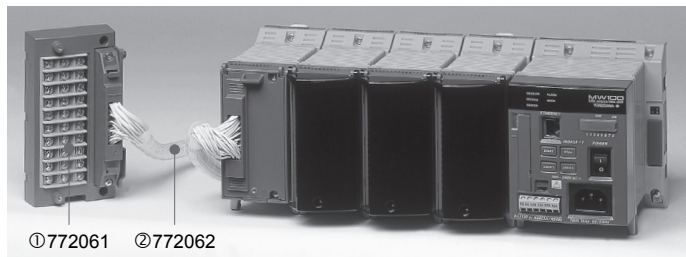
772066



• 772075
AC adaptor
AC adaptor for the DC power model
Operating temperature range: 0-40°C

Accessories (Removable Terminals)

All input/output terminals are removable except for those of the MX112-NDI-M04, MX110-VTD-L30, MX110-VTD-L30/H3.



① 772061 ② 772062



③ 772063



④ 772064



⑤ 772065



⑥ 772067



⑦ 772068



⑧ 772069



⑨ 772080



⑩ - ⑫

	Module no.	Name	Description
①	772061	M4 external screw terminal block	RJC included. Used in combination with 772062. Compatible with MX110-UNV-M10, MX114-PLS-M10, MX115-D□□-H10
②	772062	Cable between input module screw terminal blocks	Used in combination with 772061. Compatible with MX110-UNV-M10, MX114-PLS-M10, MX115-D□□-H10
③	772063	Clamp terminal block with plate	RJC included. Compatible with MX110-UNV-M10, MX114-PLS-M10, MX115-D□□-H10
④	772064	Clamp terminal	Compatible with MX110-UNV-H4
⑤	772065	Clamp terminal	Compatible with MX120-VAO-M08, MX120-PWM-M08, and MX125-MKC-M10
⑥	772067	Clamp terminal block with plate	Compatible with MX110-V4R-M06
⑦	772068	Clamp terminal block with plate	120 Ω bridge built in. Compatible with MX112-B□□-M04
⑧	772069	Clamp terminal block with plate	350 Ω bridge built in. Compatible with MX112-B□□-M04
⑨	772080	M3 plate with screw terminals	RJC included. Compatible with MX110-UNV-M10, MX114-PLS-M10, MX115-D□□-H10
⑩	772081	Plate with built-in shunt resistance (10 Ω)	Compatible with the MX110-UNV-M10
⑪	772082	Plate with built-in shunt resistance (100 Ω)	Compatible with the MX110-UNV-M10
⑫	772083	Plate with built-in shunt resistance (250 Ω)	Compatible with the MX110-UNV-M10

■ **PC software specifications**

• **MX100 standard software (attached to the main module of MX100): for connection with a single MX unit**

• **Release number: R3.01 or later**

• **Integrated Monitor (main functions):**

Setting of the basic connection, setting of various conditions (range, measurement interval, computation, tag), monitor display (digital, trend), 32 channels in one group, 10 groups, logging, computation function (60 channels), alarm output, retransmission output, manual digital output, manual analog/PWM output, etc.

• **Viewer (main functions):**

Re-display of saved data files, 32 channels in one group, 50 groups, data synchronization processing, file merge display (limited to files that can be merged), multi-interval supported (If channels with different intervals are assigned to the same group, windows are split (up to four splits) and displayed.), graph, digital display/print, cursor value display, interval arithmetic, alarm display, mark display, alarm/mark search, file information display, tag, tag comment, channel display switchover, data formatting conversion (conversion to ASCII, Excel, or Lotus format), etc.

• **Calibration software (main function): calibration function**

• **Operating environment**

[Windows2000/XP]

OS: Windows 2000 [Professional SP4]
Windows XP [HomeEdition SP2/Professional SP2]
(Professional 64bit edition is excluded.)
CPU: Pentium4 1.6GB or more
Memory: 256MB or more (recommended: 512MB or more)
Hard disk capacity: Free space of 50MB or more
(recommended: 1GB or more, 7200rpm or more)
Display: 1024×768 dot or more, Color of 65536 or more
(recommended: 1280×1024 dot or more)

[WindowsVISTA]

OS: Windows Vista[Business/HomePremium]
(64bit edition is excluded.)
CPU: Pentium4 3GB or more
Memory: 1GB or more (recommended: 2GB or more)
Hard disk capacity: Free space of 50MB or more
(recommended: 1GB or more, 7200rpm or more)
Display: 1024×768 dot or more, Color of 65536 or more
(recommended: 1280×1024 dot or more)

• **MXLOGGER (optional)**

This is used to connect multiple MX units. Up to 20 units can be connected.

• **Release number: R2.04 or later**

• **Integrated Monitor (main functions):**

Setting of the basic connection, setting of various conditions (range/alarm, measurement interval, computation), project functions (project switchover, copy, deletion), logging, computation function (240 channels, computation across units possible), alarm output, file split save function, retransmission output, manual digital output, manual analog/PWM output, activation of various types of software, display-related settings, 32 channels in one group, 50 groups, monitor displays (trend, digital, meter, alarm), multi-interval supported (If channels with different intervals are assigned to the same group in trend graphs, windows are split (up to four splits) and displayed.), All-channel trend display, temporary suspension, tag, tag comment, channel display switchover, marking function, event processor (automatic conversion, ftp, mail), Automatic start function, etc.

• **Viewer (main functions):**

Re-display of saved data files, data synchronization processing, file merge display (limited to files that can be merged), 32 channels in one group, 50 groups, multi-interval supported (If channels with different intervals are assigned to the same group in trend graphs, windows are split (up to four splits) and displayed.), graph, digital display/print, cursor value display, interval arithmetic, alarm display, mark display, alarm/mark search, file information display, tag, tag comment, channel display switchover, embedding of backup file data, data formatting conversion (conversion to ASCII, Excel, or Lotus format), etc.

• **Monitor Server (main functions):**

Retention of 1,800-point data/channels, connection with DAQLLOGGER/AddObserver/AddMulti possible, acquisition of instantaneous values on all channels, etc.

• **DDE server**

• **Operating environment:**

[Windows2000/XP]

OS: Windows 2000 [Professional SP4]
Windows XP [HomeEdition SP2/Professional SP2]
(Professional 64bit edition is excluded.)
CPU: Pentium4 1.6GB or more
Memory: 512MB or more
Hard disk capacity: Free space of 200MB or more
Display: 1024×768 dot or more, Color of 65536 or more

[WindowsVISTA]

OS: Windows Vista[Business/HomePremium]
(64bit edition is excluded.)
CPU: Pentium4 3GB or more
Memory: 2GB or more
Hard disk capacity: Free space of 200MB or more
Display: 1024×768 dot or more, Color of 65536 or more

• **MW100 viewer software (attached to the main module of MW100)**

• **Release number: R3.01 or later**

• **Address setting software (main functions):**

Entering of initial communication settings such as IP address

• **Viewer (main functions):**

Re-display of saved data files, 32 channels in one group, 50 groups, file merge display (limited to files that can be merged), multi-interval supported (If channels with different intervals are assigned to the same group, windows are split (up to four splits) and displayed.), graph, digital display/print, cursor value display, interval arithmetic, alarm display, mark display, alarm/mark search, file information display, tag, tag comment, channel display switchover, data formatting conversion (conversion to ASCII, Excel, or Lotus format), etc.

• **Calibration software (main function): calibration function**

• **Operating environment**

[Windows2000/XP]

OS: Windows 2000 [Professional SP4]
Windows XP [HomeEdition SP2/Professional SP2]
(Professional 64bit edition is excluded.)
CPU: Pentium4 1.6GB or more
Memory: 256MB or more (recommended: 512MB or more)
Hard disk capacity: Free space of 50MB or more
(recommended: 1GB or more, 7200rpm or more)
Display: 1024×768 dot or more, Color of 65536 or more
(recommended: 1280×1024 dot or more)

[WindowsVISTA]

OS: Windows Vista[Business/HomePremium]
(64bit edition is excluded.)
CPU: Pentium4 3GB or more
Memory: 1GB or more (recommended: 2GB or more)
Hard disk capacity: Free space of 50MB or more
(recommended: 1GB or more, 7200rpm or more)
Display: 1024×768 dot or more, Color of 65536 or more
(recommended: 1280×1024 dot or more)

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