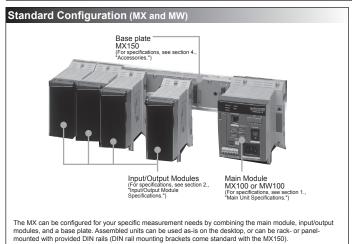
General Specifications

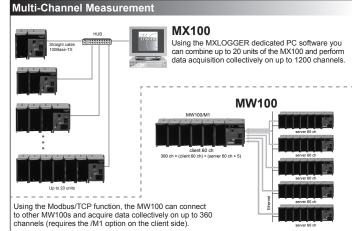
MX100/MW100 Specifications

GS 04M10A01-01E

1. MX100 and MW100 Hardware Specification

Many Bot				MX100	MW100			
Sect	Logging type				* *			
Materian number of contensible contensible per unity 100 (20 into + 6 modules)				•	·			
Manufactur marker of convertable from the per until 1960 of 1970 of		ble channels (per unit)		53				
1000 maximum number of convenience 1000 100 miles of modules								
Through a Moto browner Commonwealth explanation Commonwealth with the Commonwealth		. ,		1000 (00) 1 0 1 1 1	,-			
Control Con		nectable channels		, ,	1			
Same specified Same operation Same				· ·	ů .			
Secretary Secr	Environmental worthiness (ope	erating temperature range1)			(or -20 to 50°C when using the MX120 or MX125 output modules)			
Support Supp	Data save method	Save operation		Save on the PC (can be saved to CF card with the /DS option)	Save to CF card			
Mail Animate Mai		Save start/stop		Executed on the PC.	Executed using the START/STOP panel key, communication commands, or web browsers			
Mail-Herinary Mail-Herina		Supported external media		CF card (up to 2 GB supported), Typ	e I × 1 slot (The MX100 supports Type II)			
Deplay by Pe	Measurement interval	Basic measurement interval			that can be set differs from module to module. For the measurement interval and number of			
Marrie (platm functions) Marrie and alternative present (platema functions) Marrie and alternative functions)		Multi-interval		Up to 3 measurement groups	/measurement intervals can be set			
Marrie (platm functions) Marrie and alternative present (platema functions) Marrie and alternative functions)	Display	Display type		2 × 7-se	oment display			
Name (plant functions) Name (plant functions) Name (plant functions) Name (plant functions) Name (plant plant) Name (plant plant) Name (plant) Name (plant				_	Measurement, alarm, recording, computation, and communication status indicators			
Number of relay outputs	Alarms (alarm functions)			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			
Similarian Interfaces Filterion Filtrion Filtr		Number of alarms		4 levels per channel	4 levels per channel			
FTP function		Number of relay outputs		1 to 60 points depending on the	e number of mounted DO modules			
Email function	Communication specifications	Standard interfaces		100Base-TX/10Base	-T (auto detect), Ethernet			
DHCP client function		FTP function		_	Y			
DHCP client function				_	Y			
McDua TCP (server/client)				_				
McDua TCP (server/client)				_	Y			
ModbusTCP (servericilent)				_	Y (Windows 2000/XP/Vista Internet Explorer 5.5 or later)			
ModbusRTU (master/slave)				_				
EhenNet/IP				_				
RS-322								
MATH functions Availability Comes standard (execute using PC software) Optional (function added to main unit)) Marth functions Availability Optional function added to main unit) Optional function added to main unit) Marth functions Availability Optional function added to main unit) Optional function added to main unit) Optional function added to main unit) Mumber of channels for communication input Optional function optional perations input on the MW) Mumber of channels for communication input Optional functions (Optional function input on the MW) Marth interval Optional functions (Optional functions perations, indicated perations, indicated perations, indicated perations, indicated perations, indicated perations, antimetic operations, antimetic operations, antimetic operations, antimetic operations, indicated perations, antimetic operations, antimetic operations, antimetic operations, indicated perations, indicate								
Availability Availability Comes standard (execute using PC software) Computation Number of channels for computation Number of channels for computation input Computations Availability Availability Computations Number of channels for computation input Computations Availability Availability Computations Availability Computations Availability Computations Availability Computations Basic MATH functions, relational operations, logical operations, arithmetic operations, TLOG computation, CLOG computation, CLOG computation, CLOG computations, CLOG computation, CLOG computation, CLOG computation, CLOG computations, CLOG computation, and conditional expressions TLOG computation, CLOG computation, CLOG computation, CLOG computation, and conditional expressions TLOG computation, CLOG computation, CLOG computation, and conditional expressions TLOG computation, CLOG computation, and conditional expressions TLOG computation, and conditional expressions TLOG computation, and conditional expressions TLOG computation, and conditional expressions TL				_	'			
Number of channels for computation in put on the MW) Number of channels for communication in put Support function Sup								
Number of channels for communication input Computations Rate Dower supply voltage Power supply fequency Power supply fequency Power consumption AC power DC power DC power Power supply fequency Pow	MATH functions							
Computations Basic MATH functions, relational operations, logical operations, arithmetic operations, TLOG computation, cloCo Computation, and conditional expressions TLOG computation, CLOG computation, cloCo Computation, and conditional expressions TLOG computation, CLOG computation, and conditional expressions								
TLOG computation, and conditional expressions TLOG computation, and conditions TLOG computation, and conditional expressions TLOG computation, and conditions TLOG computation, and co			inication input		100			
Report function Normal operating conditions Rated power supply voltage Power supply voltage AC power DC power AC power DC power		Computations						
Normal operating conditions Related power supply voltage Power supply voltage Power supply frequency Power consumption AC power Power onsumption AC power AC power Power onsumption AC power AC		MATH interval		100 ms or more (can be assigned)				
DC power	Report function			_	Hourly, Daily, Weekly, Monthly (option)			
Power supply voltage	Normal operating conditions	Rated power supply voltage	AC power	100 t				
DC power 10 to 32 VDC			DC power	-	12 to 28 VDC			
DC power 10 to 32 VDC		Power supply voltage	AC power					
Power supply frequency			DC power					
Power consumption AC power Up to approximately 70 VA (when 6 modules) DC power		Power supply frequency			1.			
DC power			AC nower					
Withstand voltage AC power DC power 1500 VAC (50/60 Hz) the power supply terminal and earth terminal Insulation resistance Supported standards Structure External dimensions (mm) Weight Approximately 92 (W) × 131 (H) × 163 (D) Approximately 92 (W) × 131 (H) × 163 (D) Approximately 4.1 kg (when 6 modules) Approximately 4.3 kg (when 6 modules) Approximately 8 W Clock accuracy Application software Name MX100 Standard Software 1500 VAC (50/60 Hz) the power supply terminal and earth terminal Power supply terminals and ground, 20 MQ or more (500 VDC) CSA, UL (CSANRTLIC), CE, C-Tick Approximately 105 (W) × 131 (H) × 163 (D) Approximately 105 (W) × 131 (H) × 163 (D) Approximately 4.3 kg (when 6 modules) Approximately 8 W Application software MX100 Standard Software MX100 Standard Software MX100 Standard Software MX100 Vicwer Software		i over sensampaen						
DC power 1000 VAC (50/60 Hz) the power supply terminal and earth terminal		Withstand voltage						
Insulation resistance Power supply terminals and ground, 20 MQ or more (500 VDC) Supported standards CSA, UL (CSANRTLC), 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) Other specifications Main unit power consumption Clock accuracy £ 100 ppm Application software Name MX100 Standard Software MX100 Viewer Software								
Supported standards CSA, UL (CSANRTLIC), 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) Other specifications Main unit power consumption Approximately 8 W Clock accuracy ± 100 ppm Application software Name MX100 Standard Software MX100 Viewer Software								
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) Other specifications Main unit power consumption Clock accuracy Application software Included software Name MX100 Standard Software MX100 Viewer Software MX100 Viewer Software					t _{ii} t			
Weight Approximately 4.1 kg (when 6 modules) Approximately 4.3 kg (when 6 modules) Other specifications Main unit power consumption Clock accuracy Application software Name MX100 Standard Software MX100 Standard Software Approximately 4.3 kg (when 6 modules) MX100 Standard Software MX100 Standard Software MX100 Standard Software	0							
Other specifications Main unit power consumption Approximately 8 W Clock accuracy £ 100 ppm Application software Included software Name MX100 Standard Software MX100 Viewer Software	Structure							
Clock accuracy ± 100 ppm Application software Included software MX100 Standard Software MW100 Viewer Software								
Application software Included software Name MX100 Standard Software MW100 Viewer Software	Other specifications	Main unit power consumption						
		Clock accuracy		±1	00 ppm			
OS Windows 2000/XP/Vista Windows 2000/XP/Vista	Application software	Included software	Name	MX100 Standard Software	MW100 Viewer Software			
			os	Windows 2000/XP/Vista	Windows 2000/XP/Vista			







2. Input/Output Module Specifications

-	n A-CH High-Spe	ed Universal Input M	odula		
Module number	少 -	MX110-UNV-H04	oddie		
Style number		S1			
Number of inputs		4			
Measurement interval		10 ms (shortest)			
Types of measurement			TD, DI (non-voltage contact, level (5 \		
A/D resolution		± 20000/± 6000			
Power consumption		Approximately 3 W			
External dimensions (mm)		Approximately 57 × 131 × 151 (including terminal cover)			
Terminal type		Clamp, removable on each CH			
Applicable cable size		0.2 to 2.5 mm ² (AWG 24 to 12)			
Withstand voltage	Between input terminals	2300 VACrms (50/60 Hz), for one minute			
	Between input terminals and ground	3700 VACrms (50/60 Hz), for one mi	inute		
Normal-mode voltage	DCV, TC, DI (level)	1.2 times the range rating or less (50/60 Hz, peak value including signals)			
	RTD 100 Ω	50 mV peak			
	RTD 10, 25, 50 Ω	10 mV peak			
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 t	he integral time is 1.67 ms.			
Common-mode voltage		600 VACrms (50/60 Hz), reinforced ((double) insulation		
Common-mode rejection	When the integral time is 16.0	67 ms or more, 120 dB or more	(50/60 Hz ±0.1%, 500 Ω unbalanced		
ratio	When the integral time is 1.6	7 ms or more, 80 dB or more	between minus measurement terminal and ground)		
Common-mode voltage between	en channels	250 VACrms (50/60 Hz), reinforced (double) insulation			

Measurement Ranges and Accuracies
 The accuracy applies to standard operating conditions: ambient temp: 23±2°C, ambient humidity: 55±10% RH, supply voltage: 90 to 250 VAC, power frequency: 50/60 Hz ±1%, warm-up time: at least 30 minutes, without adverse conditions such as vibrations.

DC voltage	Input	Input Type Rated measurement range		Measurement accuracy integral time 16.67 ms or more	Measurement accuracy integral time 1.67 ms		
DC voltage		20 mV	-20.000 to 20.000 mV	±(0.05% of rdg. + 5 digits)	±(0.1% of rdg. + 25 digits)		
DC voltage		60 mV	-60.00 to 60.00 mV	±(0.05% of rdg.			
G V	Thermocouple (excludes RuC accuracy, when burnout is OFF) 3-wire RTD (Mesurement	200 mV	-200.00 to 200.00 mV	+ 2 digits)			
S V -8.000 to 8.000 V		2 V	-2.0000 to 2.0000 V	±(0.05% of rdg.+ 5 digits)	1 (O 40) - f - d - 1 40 dinita)		
100 V		6 V	-6.000 to 6.000 V		±(0.1% 01 rag. + 10 digits)		
R *1		20 V	-20.000 to 20.000 V	±(0.05% of rdg. + 2 digits)			
B *1	R*1		-100.00 to 100.00 V				
B *1		R*1	0.0 += 4700.000				
B *1		S *1	0.0 to 1760.0 C	0 to 100°C: ±3.7°C 100 to 300°C: ±1.5°C	0 to 100°C: ±10°C 100 to 300°C: ±5°C		
Thermocouple (excludes RJC accuracy, when burnout is OFF) E *1		B *1	0.0 to 1820.0°C	400 to 600C: ±2°C Less than 400°C: accuracy not	400 to 600°C: ±7°C Less than 400°C: accuracy not		
1	(excludes RJC accuracy, when	K*1	−200.0 to 1370.0°C	However, -200 to -100°C: ±(0.05% of rdg.	However, -200 to -100°C: ±(0.1% of rdg.		
However, J. L. Howe	burnout is OFF)	E *1	-200.0 to 800.0°C				
1		J *1	-200.0 to 1100.0°C				
L -2		T *1	-200.0 to 400.0°C				
U -200.0 to 400.0°C N°3 0.0 to 1300.0°C ±(0.05% of rdg. + 0.7°C) ±(0.1% of rdg. + 3.5°C) W*4 0.0 to 2315.0°C ±(0.05% of rdg. + 0.7°C) ±(0.1% of rdg. + 3.5°C) KPvsAu7Fe 0.0 to 300.0 K PP100 ** -200.0 to 500.0°C JP1100 fligh resolution) -140.00 to 150.00°C N°100 SAMA ** -00.0 to 250.0°C N°100 SAMA ** -200.0 to 250.0°C PP100 (heavement current 1 mA) N°10 SAMA ** -200.0 to 250.0°C PP100 (heavement current 2 mA) JP1100 (high resolution) -140.00 to 150.00°C JP1100 (high resolution) -140.00 to 150.0°C Gui O SAMA ** -200.0 to 250.0°C Loui O SAMA ** -200.0 to 250.0°C Curl O SAMA ** -200.0 to 300.0°C Curl O SAM		L *2	-200.0 to 900.0°C				
W = 0.0 to 2315.0°C ±(0.05% of rdg. + 0.7°C) ±(0.1% of rdg. + 7°C) ±(0.1% of rdg. + 3.5 K) ±(0.1% of rdg. + 1.5°C) ±(0.05% of rdg. + 0.3°C) ±(0.1% of rdg. + 1.5°C)		U	-200.0 to 400.0°C	(, , , , , , , , , , , , , , , , , , ,	(* *** ***		
W		N *3	0.0 to 1300.0°C	±(0.05% of rdg. + 0.7°C)	±(0.1% of rdg. + 3.5°C)		
P1100 "s		W *4	0.0 to 2315.0°C		±(0.1% of rdg. + 7°C)		
Jeff 100		KPvsAu7Fe	0.0 to 300.0 K	±(0.05% of rdg. + 0.7 K)	±(0.1% of rdg. + 3.5 K)		
3-wire RTD (Messurement current 1 mA) F100 (high resolution) -140.00 to 150.00°C +10.00°C		Pt100 *5	-200.0 to 600.0°C				
3-wire RTD (Measurement 1 mA) JP100 (high resolution) -140.00 to 150.00°C ±(0.05% of rdg. + 0.3°C) ±(0.1% of rdg. + 1.5°C) ±(0.1% of rdg		JPt100 *5	-200.0 to 550.0°C				
Measurement current 1 mA Min		Pt100 (high resolution)	-140.00 to 150.00°C		±(0.1% of rdg. + 1.5°C)		
Ni100 SAMA **	(Mesurement		-140.00 to 150.00°C	±(0.05% of rdg. + 0.3°C)			
Ni120 "	current i ma)	Ni100 SAMA *6	-00.0 to 250.0°C				
P1100 **		Ni100 DIN *6	-60.0 to 180.0°C				
JPt100 **s		Ni120 *7	-70.0 to 200.0°C				
Pt100 (high resolution)		Pt100 *5	-200.0 to 250.0°C				
3-wire RTD (Measurement current 2 mA)		JPt100 *5	-200.0 to 250.0°C				
3-wire RTD (Measurement current 2 mA)		Pt100 (high resolution)	-140.00 to 150.00°C	+(0.05% of rdg + 0.3°C)	+(0.1% of rdg + 1.5°C)		
(Measurement current 2 mA) Curl 0.6E ** Curl 0.10 E ** Curl 0.8M ** -200.0 to 550.0°C Curl 0.8M ** -200.0 to 500.0°C Curl 0.8M ** -200.0 to 500.0°C Curl 0.8M EV -200.0 to 500.0°C Curl 0.8M EV -200.0 to 500.0°C 200.0 to 500.0°C ±(0.1% of rdg. + 0.7°C) ±(0.2% of rdg. + 2.5°C) ±(0.1% of rdg. + 0.7°C) ±(0.2% of rdg. + 2.5°C) ** ** ** ** ** ** ** ** **	3-wire RTD		-140.00 to 150.00°C	2(0.00 /n 01 lag. 1 0.0 0)	2(0.170 01 lug. 1 1.0 0)		
Cu10 L&N *8	(Measurement	Pt50 *5	-200.0 to 550.0°C				
Cu10 WEED № -200.0 to 300.0°C ±(0.1% of rdg. + 0.7°C) ±(0.2% of rdg. + 2.5°C) Cu10 BAILEY № -200.0 to 300.0°C ±(0.05% of rdg. + 0.3 K) ±(0.1% of rdg. + 1.5K) J2638 0.0 to 300.0 K ±(0.05% of rdg. + 0.3 K) ±(0.1% of rdg. + 1.5K) Level Vth = 2.4 V Threshold level accuracy ±0.1 V	current 2 mA)	Cu10 GE *8	-200.0 to 300.0°C				
Cu10 WEED **		Cu10 L&N *8	-200.0 to 300.0°C	+(0.19/ of rdg + 0.7°C)	+(0.3%) of rdg + 3.5°C)		
J263B 0.0 to 300.0 K ±(0.05% of rdg. + 0.3 K) ±(0.1% of rdg. + 1.5K) Level Vth = 2.4 V Threshold level accuracy ±0.1 V		Cu10 WEED *8	-200.0 to 300.0°C	±(0.1% 011ug. + 0.1 °C)	±(0.2% 01 lug. + 2.5 °C)		
Level Vth = 2.4 V Threshold level accuracy ±0.1 V		Cu10 BAILEY *8	-200.0 to 300.0°C				
DI TOTAL TOT		J263B	0.0 to 300.0 K	±(0.05% of rdg. + 0.3 K)	±(0.1% of rdg. + 1.5K)		
	DI	Non-voltage contact		100 V or less: ON, 10 kV or more	OFF *9		

- R. S. B. K. E. J. T. ANSI, IEC 584, DIN IEC 584, JIS C 1602-1981
 L: Fe-CuNI, DIN43710U. Cu-CuNI, DIN 43710
 R. Nicrosi-Nisil, IEC 584, DIN IEC 584
 W: W 5%RE-W 26%Re (Hoskins Mig Co)
 PIÓ: JIS C 1604-1981, JIS C 1606-1980PP100: JIS C 1604-1989, JIS C 1606-1989, IEC 751, DIN IEC 751/JP1100. JIS C 1604-1981, JIS C 1606-1989
 SAMAZDIN
 ROCRAW EDISON COMPANY
 Guaranteed accuracy raige Cu10 GE: -94.4 to 170.0°C/Cu10 L8N: -75.0 to 150.0°C/Cu10 WEED: -20.0 to 250.0°C/Cu10 BAILEY: -20.0 to 250.0°C
 To be determined at the measurement current of 1 mA and within the range of 2 V. The threshold level is approximately 0.8 V.

*Special Input Ranges (MX100 can be used in MXLOGGER)

Input	Туре	Rated measurement range	Measurement accuracy integral time 16.67 ms or more	Measurement accuracy integral time 1.67 ms
	60 mV	0.000 to 60.000 mV	±(0.05% of rdg. +20 digits)	±(0.1% of rdg. +100 digits)
Voltage	1 V	-1 .0000 to 1.0000 V	±(0.05% of rdg. +2 digits)	±(0.1% of rdg. +10 digits)
	6 V	0.0000 to 6.0000 V	±(0.05% of rdg. +20 digits)	±(0.1% of rdg. +100 digits)

ported thermocouple: PLATINEL, PR40-20, NINIMo, WRe3-25, WWRE56, N (AWG14)
ported RTD: PT100 (high noise resistance), Pt (high noise resistance), Cu10 (at 20°C, a = 0.00392), Cu10 (at 20°C, a = 0.00393), Cu25 (at 0°C, a = 0.00425), Pt25, Cu10 GE (high resolution), Cu10 L8N (high resolution), Cu10 L8N (high resolution) cu10 L8N (high resolution) cu10 at 20°C, a = 0.00425), Pt25, Cu10 GE (high resolution), Cu10 L8N (high resolution), Cu10 at 20°C, a = 0.00425), Pt25, Cu10 GE (high resolution), Cu10 L8N (high resolution), Cu10 at 20°C, a = 0.00425), Pt25, Cu10 GE (high resolution), Cu10 L8N (high resolution), Cu10

Integration Time 1.67 ms 16.67 ms 20 ms Auto*2 36.67 ms 100 ms 200 ms		Measurement Interval	10 ms*1	50 ms		100 ms 200 ms		500 ms	1 s 2, 5,10, 20, 30, 60	
	8	Integration Time	1.67 ms	16.67 ms 20 ms Auto*2		36.67 ms 1		100 ms 200 ms		200 ms

*1 When the measurement interval is 10 ms, measured values may fluctuate since power supply frequency noise is not rejected. In such cases, set the measurement interval to 50 ms or more.
*2 For UC power, set to 20 ms.



② '	10-CH, Medium-S	peed Universal Inpu	it Module		
Module number		MX110-UNV-M10			
Style number		S1			
Number of inputs		10			
Measurement interval		100 ms (shortest)			
Types of measurement		DC voltage, thermocouple, 3-wire V logic))	RTD, DI (non-voltage contact, level (5		
A/D resolution		± 20000/± 6000			
Power consumption		Approximately 1.2 W			
External dimensions (mm)		Approximately 57 × 131 × 151 (inc	cluding terminal cover)		
Terminal types		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	1000 VACrms (50/60 Hz), for one minute			
	Between input terminals and ground	3700 VACrms (50/60 Hz), for one	minute		
Normal-mode voltage	DCV, TC, DI (level)	1.2 times the range rating or less (50/60 Hz, peak value including signals)			
	RTD 100 Ω	50 mV peak			
	RTD 10, 25, 50 Ω	10 mV peak			
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 to	he integral time is 1.67 ms.			
Common-mode voltage		600 VACrms (50/60 Hz), reinforce	d (double) insulation		
Common-mode rejection	When the integral time is 16.6	67 ms or more, 120 dB or more	(50/60 Hz ±0.1%, 500 Ω unbalanced		
ratio	When the integral time is 1.67	7 ms or more, 80 dB or more	between minus measurement terminal and ground)		
Common-mode voltage between	en channels	120 VACrms (50/60 Hz)			

Measurement Ranges and Accuracies
The accuracy applies to standard operating conditions: ambient temp: 23±2°C, ambient humidity: 55±10% RH, supply voltage: 90 to 250 VAC, power frequency: 50/60 Hz±1%, warm-up time: at least 30 minutes, without adverse profitions on the on whether the conditions are the order to the conditions are the order to the conditions are the order to the conditions are the cond

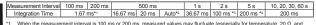
Input	Туре	Rated measurement range	Measurement accuracy integral time 16.67 ms or more	Measurement accuracy integr time 1.67 ms	
	20 mV	–20.000 to 20.000 mV	±(0.05% of rdg. + 5 digits)	±(0.1% of rdg. + 25 digits)	
	60 mV	-60.00 to 60.00 mV	±(0.05% of rdg. + 2 digits)		
	200 mV	-200.00 to 200.00 mV	±(0.05 % 01 lug. + 2 digits)		
DC voltage	2 V	-2.0000 to 2.0000 V	±(0.05% of rdg. + 5 digits)	±(0.1% of rdg. + 10 digits)	
	6 V	-6.000 to 6.000 V		±(0.1% 01 rag. + 10 digits)	
	20 V	-20.000 to 20.000 V	±(0.05% of rdg. + 2 digits)		
	100 V	-100.00 to 100.00 V	1		
	R*1	0.01.1700.000	±(0.05% of rdg. +	±(0.1% of rdg. + 4°C)	
Thermocouple RJC accuracy not included	S *1	0.0 to 1760.0°C	1°C)	However, R, S:	
	B*1	0.0 to 1820.0°C	However, R, S: 0 to 100°C: ±3.7°C 100 to 300°C: ±1.5°C B: 400 to 600°C: ±2°C Less than 400°C: accuracy not quaranteed	0 to 100°C: ±10°C 100 to 300°C: ±5°C B: 400 to 600°C: ±7°C Less than 400°C: accuracy n guaranteed	
	K*1	−200.0 to 1370.0°C	±(0.05% of rdg. + 0.7°C) However, -200 to -100°C: ±(0.05% of rdg. + 1°C)	±(0.1% of rdg. + 3.5°C) However, -200 to -100°C: ±(0.1% of rdg. + 6°C)	
	E*1	-200.0 to 800.0°C			
	J *1	-200.0 to 1100.0°C	±(0.05% of rdg. + 0.5°C)	±(0.1% of rdg. 1+ 2.5°C)	
	T*1	-200.0 to 400.0°C	However, J, L: -200 to -100°C:	However, -200 to -100°C:	
	L *2	-200.0 to 900.0°C	±(0.05% of rdg. + 0.7°C)	±(0.1% of rdg. + 5°C)	
	U	-200.0 to 400.0°C	1 -(_(
	N *3	0.0 to 1300.0°C	±(0.05% of rdg. + 0.7°C)	±(0.1% of rdg. + 3.5°C)	
	W *4	0.0 to 2315.0°C	±(0.05% of rdg. + 1°C)	±(0.1% of rdg. + 7°C)	
	KPvsAu7Fe	0.0 to 300.0 K	±(0.05% of rdg. + 0.7 K)	±(0.1% of rdg. + 3.5 K)	
	Pt100 *5	-200.0 to 600.0°C			
	JPt100 *5	-200.0 to 550.0°C	±(0.05% of rdg. + 0.3°C)	±(0.1% of rdg. + 1.5°C)	
	Pt100 (high resolution)	-140.00 to 150.00°C	. (0.050/ . (. t 0.000)	. (0.40) . (4.500)	
	JPt100 (high resolution)	-140.00 to 150.00°C	±(0.05% of rdg. + 0.3°C)	±(0.1% of rdg. + 1.5°C)	
3-wire RTD	Ni100 SAMA *6	-200.0 to 250.0°C			
/leasurement	Ni100 DIN *6	-60.0 to 180.0°C	±(0.05% of rdg. + 0.3°C)	±(0.1% of rdg. + 1.5°C)	
urrent 1 mA)	Ni120 *7	-70.0 to 200.0°C	±(0.05 % 01 ldg. + 0.3 C)	±(0.1 % 01 lug. + 1.5 C)	
	Pt50 *5	-200.0 to 550.0°C			
	Cu10 GE *8	-200.0 to 300.0°C			
ľ	Cu10 L&N *8	-200.0 to 300.0°C	1/0 49/ -4-4- 1 280)	1/0 20/ -1-1- 1 500)	
	Cu10 WEED *8	-200.0 to 300.0°C	±(0.1% of rdg. + 2°C)	±(0.2% of rdg. + 5°C)	
	Cu10 BAILEY *8	-200.0 to 300.0°C]		
	J263B	0.0 to 300.0 K	±(0.05% of rdg. + 0.3 K)	±(0.1% of rdg. + 1.5 K)	
	Level	Vth = 2.4 V		accuracy ±0.1 V	
DI	Non-voltage contact		1 kΩ or less: ON, 100 kΩ or more (parallel capacity is 0.01 μF or le		

- R. S. B. K. E. J. T. ANSI, IEC 584, DIN IEC 584, JIS C 1602-1981 L: Fe-Cuini, DIN437101. C-u-Cuini, DIN 43710 N. Microsil-Nisil, IEC 584, DIN IEC 584 W: W 5%RE-W 26K/Re (Hockins Mig Co) PISC. JIS C 1604-1981, JIS C 1606-1980/PI100: JIS C 1604-1989, JIS C 1606-1989, IEC 751, DIN IEC 751/JPH100: JIS C 1604-1981, JIS C

*Special Input Ranges (MX100 can be used in MXLOGGER)

Input	Type	range	integral time 16.67 ms or more	integral time 1.67 ms					
	60 mV	0.000 to 60.000 mV	±(0.05% of rdg.+ 20 digits)	±(0.1% of rdg.+ 100 digits)					
Voltage	1 V	-1 .0000 to 1.0000 V	±(0.05% of rdg.+ 2 digits)	±(0.1% of rdg.+ 10 digits)					
	6 V	0.0000 to 6.0000 V	±(0.05% of rdg.+ 20 digits)	±(0.1% of rdg.+ 100 digits)					

ported thermocouple: PLATINEL, PR40-20, NINIMo, WRe3-25, WWRe26, N(AWG14)
ported RTD: Cut10 (at 20°C. a = 0.00392), Cut10 (at 20°C. a = 0.00392), Cut10 (at 20°C. a = 0.00426), Cut30 (at 20°C. a = 0.00426035), Cut10
(at 0°C, a = 0.00425), PZ5, Cut10 GE (high resolution), Cut10 L&N (high resolution), Cut10 WEED (high resolution), and Cut10 BAILEY (high resolution) are cut10 BAILEY (high resolution).



- 11 When the measurement interval is 100 ms or 200 ms, measured values may fluctuate (especially for temperature, 20,0 and other measurements) since power supply frequency noise is not rejected. In such cases, set the measurement interval to 500 ms or more.

 2 For DC power, set to 20 ms.

 3 When synchronizing time by SNTP, the integral time is set to 36.67 ms. Also in this case, noise of 50 Hz, 60 Hz, and their integer multiples is rejected.

 In the control of the co
- ② 10-CH, Medium-Speed Universal Input Module MX110-UNV-M10

③ Six-Channe	, Medium-Speed	Four-Wire RTD Res	istance Input Module		
Module number		MX110-V4R-M06			
Style number		S2			
Number of inputs		6			
Measurement interval		100 ms (shortest)			
Types of measurement		DC voltage, 4-wire resistance ten (non-voltage contact, level (5 V lo	nperature detector, 4-wire resistance, DI		
A/D resolution		± 20000/± 6000			
Power consumption		Approximately 1.2 W			
External dimensions (mm)		Approximately 57 × 131 × 151 (in	cluding terminal cover)		
Terminal types		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	(DCV, DI range) 1000 VACrms (5	0/60 Hz) for one minute		
	Between input terminals	(RTD or resistance range), 620 VACrms (50/60 Hz) for one minute			
	Between input terminals and ground	3700 VACrms (50/60 Hz) for one minute			
Normal-mode voltage	DCV, DI (level)	1.2 times the range rating or less (50/60 Hz, peak value including signals)			
	2 kΩ resistance, RTD 100/500/1000 Ω	50 mV peak			
	200 Ω resistance, RTD 10/25/50 Ω	10 mV peak			
	20 Ω resistance	4 mV peak			
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 t	he integral time is 1.67 ms.			
Common-mode voltage		600 VACrms (50/60 Hz), reinforce	ed (double) insulation		
Common-mode rejection	When the integral time is 16.6	67 ms or more, 120 dB or more	(50/60 Hz ±0.1%, 500 Ω unbalance		
ratio	When the integral time is 1.6	7 ms or more, 80 dB or more	between minus measurement termina and ground)		
Common-mode voltage between channels	For voltage/DI	120 VACrms (50/60 Hz)			
	For RTD/resistance	50 VACrms (50/60 Hz)			

Measurement Ranges and Accuracies
 The accuracy applies to standard operating conditions: ambient temp: 23±2°C, ambient humidity: 55±10% RH, supply voltage: 90 to 250 VAC, power frequency: 50/60 Hz ±1%, warm-up time: at least 30 minutes, without adverse conditions such as vibrations.

Input	Туре	Rated measurement range	Measurement accuracy integral time 16.67 ms or more	Measurement accuracy integral time 1.67 ms	
	20 mV	-20.000 to 20.000 mV	±(0.05% of rdg. + 5 digits)	±(0.1% of rdg. + 25 digits)	
	60 mV	-60.00 to 60.00 mV			
DC voltage	200 mV	-200.00 to 200.00 mV	±(0.05% of rdg. + 2 digits)		
	2 V	-2.0000 to 2.0000 V	±(0.05% of rdg. + 5 digits)		
	6 V	-6.000 to 6.000 V		±(0.1% of rdg. + 10 digits)	
	20 V	-20.000 to 20.000 V	±(0.05% of rdg. + 2 digits)		
	100 V	-100.00 to 100.00 V			
DI	Level	Vth = 2.4 V	Threshold leve	l accuracy ±0.1 V	
Di	Non-voltage contact	1 kΩ or less: ON, 1	00 kΩ or more: OFF (parallel capa	acity is 0.01 µF or less) *1	
	Pt100 *2	-200.0 to 600.0°C			
	JPt100 *2	-200.0 to 550.0°C			
	Pt100 (high resolution)	-140.00 to 150.00°C			
	JPt100 (high resolution)	-140.00 to 150.00°C	±(0.05% of rdg. + 0.3°C)	±(0.1% of rdg. + 1.5°C)	
	Ni100 SAMA *3	-200.0 to 250.0°C			
4-wire RTD (Measurement	Ni100 DIN *3	−60.0 to 180.0°C			
current 1 mA)	Ni120 *4 -70.0 to 200.0°C				
	Pt50 *2	-200.0 to 550.0°C			
	Cu10 GE *5	-200.0 to 300.0°C		±(0.2% of rdg. + 5°C)	
	Cu10 L&N *5	-200.0 to 300.0°C	±(0.1% of rdg. + 2°C)		
	Cu10 WEED *5	-200.0 to 300.0°C	±(0.1% 011dg. + 2 C)	±(0.2% of rag. + 5 C)	
	Cu10 BAILEY *5	-200.0 to 300.0°C			
	J263B	0.0 to 300.0 K	±(0.05% of rdg. + 0.3 K)	±(0.1% of rdg. + 1.5 K)	
4-wire RTD	Pt500 *6	-200.0 to 600.0°C			
(Measurement current 0.25 mA)	Pt1000 *6	–200.0 to 600.0°C	±(0.05% of rdg. + 0.3°C)	±(0.1% of rdg. + 1.5°C)	
	20 Ω (measuement cuent: 1 mA)	0.000 to 20.000 Ω	±(0.05% of rdg. + 7 digits)	±(0.1% of rdg. + 25 digits)	
4-wire resistance	200 Ω (measuement cuent: 1 mA)	0.00 to 200.00 Ω	±(0.05% of rdg. + 3 digits)	±(0.1% of rdg. + 15 digits)	
	2 kΩ (measuement cuent: 0.25 mA)	0.0 to 2000.0 Ω	±(0.05% of rdg. + 3 digits)	±(0.1% of rdg. + 10 digits)	

- To be determined at the measurement current of approximately 10 µA and within the range of 200 mV. The threshold level is approximately 0.1 V
- *2

- V. Tiso: JIS C 1604-1981, JIS C 1606-1986/Pt100: JIS C 1604-1989, JIS C 1606-1989, IEC 751, DIN IEC 751, JPH100: JIS C 1604-1981, JIS C 1606-1989 AMAZIN ASSAMAZIN ASS
- The Pt500 resistance table is Pt100 3 5, and the Pt1000 resistance table is Pt100 × 10

*Special Input Ranges (MX100 can be used in MXLOGGER)

Input	Туре	Rated measurement range	Measurement accuracy integral time 16.67 ms or more	Measurement accuracy integral time 1.67 ms
	60 mV	0.000 to 60.000 mV	±(0.05% of rdg.+20 digits)	+(0.1% of rdg.+ 100 digits)
Voltage	1 V	-1 .0000 to 1.0000 V	±(0.05% of rdg.+ 2 digits)	+(0.1% of rdg.+ 10 digits)
	6 V	0.0000 to 6.0000 V	±(0.05% of rdg.+ 20 digits)	+(0.1% of rdg.+ 100 digits)

Supported RTD: Cu10 (at 20°C, a = 0.00392), Cu10 (at 20°C, a = 0.00393), Cu25 (at 0°C, a = 0.00425), Cu33 (at 0°C, a = 0.004250), Cu35 (at 0°C, a = 0.004250), Cu

Measurement Interval	100 ms	200 ms		500 ms		1 s	2 s	5 s	10, 20, 30, 60 s
Integration Time	1.67 ı	ns*1*2	16.67 ms	20 ms	Auto*3	36.67 ms	100 ms*4	200 ms*5	200 ms

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		peed DCV/TC/DI Inp		
Module number		MX110-VTD-L30, (/H3: M3 screw t	terminal)	
Style number		S3		
Number of inputs		30		
Measurement interval		500 ms (shortest)		
Types of measurement		DC voltage, thermocouple, DI (nor	n-voltage contact, level (5 V logic)	
A/D resolution		± 20000/± 6000		
Power consumption		Approximately 1.2 W		
External dimensions (mm)		Approximately 174 × 131 × 151 (including terminal cover)		
Terminal types		Clamp terminal, (/H3: M3 screw terminal)		
Applicable cable size		0.14 to 1.5 mm ² (AWG 26 to 16)		
Withstand voltage	Between input terminals	1000 VACrms (50/60 Hz), for one minute		
	Between input terminals and ground	3700 VACrms (50/60 Hz), for one	minute	
Normal-mode voltage	DCV, TC, DI (level)	1.2 times the range rating or less (50/60 Hz, peak value including signal		
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	he integral time is 1.67 ms.		
Common-mode voltage		600 VACrms (50/60 Hz), reinforced (double) insulation		
Common-mode rejection	When the integral time is 16.6	37 ms or more, 120 dB or more	(50/60 Hz ±0.1%, 500 Ω unbalanced	
ratio	When the integral time is 16.6	37 ms, 80 dB or more	between minus measurement termina and ground)	
Common-mode voltage between	en channels	120 VACrms (50/60 Hz)		

Measurement Ranges and Accuracies

The accuracy applies to 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.

Input	Туре	Rated measurement range	Measurement accuracy integral time 16.67 ms or more	Measurement accuracy integral time 1.67 ms	Maximum resolution (1 digit)
	20 mV	-20.000 to 20.000 mV	± (0.05% of rdg. + 5 digits)	± (0.1% of rdg. + 25 digits)	1 μ V
	60 mV	-60.00 to 60.00 mV	. (0.050/ afada 2 diada)		10 μ V
	200 mV	-200.00 to 200.00 mV	± (0.05% of rdg. + 2 digits)		10 μ V
DC voltage	2 V	-2.0000 to 2.0000 V	± (0.05% of rdg. + 5 digits)	± (0.1% of rdg. + 10 digits)	100 μ V
	6 V	-6.000 to 6.000 V		± (0.1% of rug. + 10 digits)	1 mV
	20 V	-20.000 to 20.000 V	± (0.05% of rdg. + 2 digits)		1 mV
	100 V	-100.00 to 100.00 V			10 mV
	R*1	0.0 to 1760 0°C	± (0.05% of rdg. + 1°C)	± (0.1% of rdg. + 4°C)	
	S *1	0.0 to 1760.0 C	However, R, S: 0 to 100°C: + 3.7°C	However, R, S: 0 to 100°C: ± 10°C 100 to 300°C: ± 5°C B: 400 to 600°C: ± 7°C Less than 400°C: accuracy not guaranteed	
	B *1	0.0 to 1820.0°C	100 to 300°C: ± 1.5°C B: 400 to 600°C: ±2°C Less than 400°C: accuracy not guaranteed		
Thermocouple RJC accuracy	K*1	−200.0 to 1370.0°C	± (0.05% of rdg. + 0.7°C) However, -200 to -100°C: ± (0.05% of rdg. + 1°C)	± (0.1% of rdg. + 3.5°C) However, -200 to -100°C: ± (0.1% of rdg. + 6°C)	0.1°C
not included	E *1	-200.0 to 800.0°C		± (0.1% of rdg. + 2.5°C)	
	J *1	-200.0 to 1100.0°C	± (0.05% of rdg. + 0.5°C)		
	T *1	-200.0 to 400.0°C	However, J, L: -200 to -100°C:	However, -200 to -100°C:	
	L *2	-200.0 to 900.0°C	±(0.05% of rdg. + 0.7°C)	± (0.1% of rdg. + 5°C)	
	U	-200.0 to 400.0°C			
	N *3	0.0 to 1300.0°C	± (0.05% of rdg. + 0.7°C)	± (0.1% of rdg. + 3.5°C)	
	W *4	0.0 to 2315.0°C	± (0.05% of rdg. + 1°C)	± (0.1% of rdg. + 7°C)	
	KPvsAu7Fe	0.0 to 300.0 K	± (0.05% of rdg. + 0.7 k)	± (0.1% of rdg. + 3.5 K)	0.1 k
DI	Level	Vth = 2.4 V	Thresho	ld level accuracy ± 0.1 V	
ы	Non-voltage contact	1 k Ω or less: C	N, 10 k Ω or more: OFF (para	llel capacity is 0.01 μF or less)	9

- | I R. S. B. K. E. J. T. ANSI, IEC 584. DIN IEC 584, JIS C 1602-1981
 | R. S. B. K. E. J. T. ANSI, IEC 584. DIN IEC 584, JIS C 1602-1981
 | L. F. G.ONI, DIN 43710-1/C 10-Cubil, DIN 43710
 | N. Nicrosi Holisi, IEC 584, DIN IEC 584
 | W. W. WSKRE-W. 26%Re (Hoskins Mfg Co)
 | P160. JIS C 1604-1981, JIS C 1604-1989, JIS C 1604-1989, JIS C 1606-1989, IEC 751, JIN IEC 751/JP100: JIS C 1604-1981, JIS C 1606-1880
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*Special Input Ranges (MX100 can be used in MXLOGGER)

Input	Туре	Rated measurement range	Measurement accuracy integral time 16.67 ms or more	Measurement accuracy integral time 1.67 ms
	60 mV	0.000 to 60.000 mV	±(0.05% of rdg. + 20 digits)	±(0.1% of rdg. + 100 digits)
Voltage	1 V	-1 .0000 to 1.0000 V	±(0.05% of rdg. + 2 digits)	±(0.1% of rdg. + 10 digits)
	6 V	0.0000 to 6.0000 V	±(0.05% of rdg. + 20 digits)	±(0.1% of rdg. + 100 digits)

Supported thermocouple: PLATINEL, PR40-20, NiNiMo, WRe3-25, W/WRe26, N(AWG14)

Measurement Interval	500 ms		1 s		2 s	5 s	10, 20, 30, 60 s
Integration Time	1.67 ms*1	16.67 ms	20 ms	Auto*2	36.67 ms*3	100 ms*4	100 ms

- Because the power supply frequency noise is not rejected; the measured vales may fluctuate especially with temperature measurement using thermocouples, in such cases, increase the measurement interval, or use the 4-CH High-Speed Universal Input Module or the 10-CH, Medium Speed Universal Input Module or the 10-CH, Medium For DC power, set to 20 ms.
 When synchronizing time by SNTP, the integral time is the same as when the measurement interval is 1 s.
 When synchronizing time by SNTP, the integral time is set to 36 offs. ms. Also in this case, noise of 50 Hz, 60 Hz, and their integer multiples is



@ 30-CH Medium-Speed DCV/TC/DI Input Module



© 30-CH Medium-Speed DCV/TC/DI Input Module

	6 7 8 4-CH M€	edium-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 measuremen	t	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 mm² (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	For integral time of 16.	67 ms or more, 40 dB or more (50/60 Hz ±0.1%)	
rejection ratio:	50/60 Hz not rejected	when the integral time is 1.67 ms.	
	(voltage conversion va	lue given a bridge voltage of 2 V)	
Common-mode	-B12, -B35: 30 VAC rms	(50/60 Hz) between channels, 250 VAC rms (50/60 Hz) between input and ground	
voltage	-NDI: 30 VACrms (50/60 Hz) between channels, 30 VACrms (50/60 Hz) between input and gr		
	(Note that the connector shell is connected to earth potential)		
Common-mode	When the integral time	is 16.67 ms or more, 120 dB or more	
rejection ratio	When the integral time	is 1.67 ms, 80 dB or more	
	(voltage conversion va	lue 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.

		Integral time 16	.67 ms or more	Integral time 1.67 ms	
Measurement range	Measuring range	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. or more Effect of wirting resistance: 1 M. or more Effect of wirting resistance: No correction for wiring resistance (with -B12 or -B35). Depends on the gauge resistance. For -NDI, 50 ppm of rdg/_ (using renotle sensing wire). Temperature coefficient ± 100 ppm of range*C







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



® 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 interva	i	100 ms (shortest)	
Types of measureme	nt	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 accura	су	The number of counts ±1 pulse	
Chattering elimination	n filter	Chattering elimination filter up to 5 ms (ON/OFF switching for every channels)	
TLOG.PSUM calcula	tion limit	0 to 99999999 (8 digits excluding a decimal position)	
Minimum detection p	ulse width	40 μs	
Input threshold level			
Non-voltage contact or	open collector	Count every change when the value of 100 k Ω 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 ra	tina	Contact with a rating of 15 VDC or more, and 30 mA or more	
Contact, transistor ra	ung	Transistor with a rating of Vce >15 VDC and Ic >30 mA	
Maximum input voltag	ge	±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)	



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

Module number		h-Speed 5 V Digital Input Module	
Style number		S1	
Number of inputs		10	
Input threshold level:		Contact (non-voltage contact, open collector): 100 Ω or less, ON, 100 k Ω 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 measuremen	nt	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 accurac	у	The number of counts ±1 pulse	
Chattering elimination	filter	Chattering elimination filter up to 5 ms (ON/OFF switching for every channels	
TLOG.PSUM calculati	on limit	0 to 9999999 (8 digits excluding a decimal position)	
Minimum detection pu	lse width	Twice the sampling interval or more	
Input threshold level			
Non-voltage contact or o	open collector	100 Ω or less: ON, 100 k Ω 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	9	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 voltag	e	±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 mm² (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)	

10 10-CH, High	1-Speed 24 V Digital Input Module	
	MX115-D24-H10	
	S2	
	10	
	LEVEL (24-V logic): OFF at 6 V or less and ON at 16 V or greater	
	10 ms (shortest)	
	Level (24 V logic)	
se width	Twice the sampling interval or more	
	6 V or less: OFF, 16 V or more: ON	
	Approximately 1.5 V.	
!	50 VDC	
	Approximately 1.5 W	
nm)	Approximately 57 × 131 × 151 (including terminal cover)	
	Clamp. Plate with removable clamp terminals removable	
	0.14 to 1.5 mm² (AWG 26 to 16)	
Between input terminals and ground	2300 VACrms (50/60 Hz), for one minute	
Between input terminals and ground	250 VACrms (50/60 Hz)	
Between input terminals and ground	$20~\text{M}\Omega$ or more (500 VDC)	
	Between input terminals and ground Between input terminals and ground Between input deminals and ground between input	

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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 (r	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 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)

12 10-CH, Medium-Speed Digital Output Module



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



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



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

	(3) 8-CH, Med	lium-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 accurac	y	± 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 (r	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 mm² (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	



8-CH, Medium-Speed PWM Output Module

	4 8-CH, Medi	um-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 (soucing 1 to 5 V:4 to 20 mA)	
Maximum allowable	Voltage	-11 V to 11 V	
output range	Current	0 to 22 mA	
Load resistance		Voltage: 5 k Ω or more, current: 600 Ω or less	
Accuracy (at rated out	put)	± 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 output)	(required for current	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 mm² (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)	



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			
interval	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.

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 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
10 ch	500 ms	18.5 days	74 days	144 days	288 days
10 CH	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
	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
20 ch	1 s	18.5 days	74 days	144 days	288 days
	2 s	37 days	148 days	289 days	578 days
	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
60 ch	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

400 A/m or less (50/60 Hz) Magnetic field:

Position: Position horizontally with feet down

Usage location: Indoors

Operating altitude: 2,000 m or less

II (per IEC61010-1 and CSA C22.2 No.61010-1) Overvoltage category: II (per IEC61010-1 and CSA C22.2 No.61010-1) Measurement category: 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

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/s² or less

Shock: 392 m/s² or less (when packaged)

Obtained CSA22.2 No.61010-1, Overvoltage category: II, Measurement category: II, Degree of pollution: 2 Obtained UL61010B-1 (CSA NRTL/C) EN61326, EN61000-3-2, EN61000-3-3, EN55011 Class A Group1 CE 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

^{*1} Maximum number of channels when using MXLOGGER.

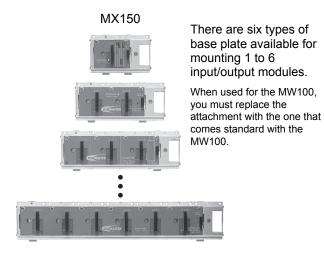
The operating temperature range of the AC adapter is 0 to 40°C.

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

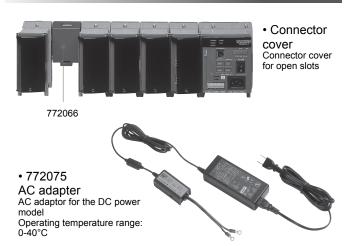
"3: No condensation

4. Accessories

Base plate



Accessories



Accessories (Removable Terminals)

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



	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,

· 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

256MB or more (recommended: 512MB or more) Memory:

Hard disk capacity: Free space of 50MB or more

(recommended: 1GB or more, 7200rpm or more)

1024×768 dot or more, Color of 65536 or more Display: (recommended: 1280×1024 dot or more)

[WindowsVISTA]

Windows Vista[Business/HomePremium] OS:

(64bit edition is excluded.) Pentium4 3GB or more

CPU: 1GB or more (recommended: 2GB or more) Memory:

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 seach, 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 DAQLOGGER/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

Free space of 200MB or more Hard disk capacity:

1024×768 dot or more, Color of 65536 or more Display:

[WindowsVISTA]

Windows Vista[Business/HomePremium] OS:

(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

256MB or more (recommended: 512MB or more) Memory:

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]

Display:

OS: Windows Vista[Business/HomePremium]

(64bit edition is excluded.)

CPU: Pentium4 3GB or more

1GB or more (recommended: 2GB or more) Memory:

Hard disk capacity: Free space of 50MB or more

(recommended: 1GB or more, 7200rpm or more) 1024×768 dot or more, Color of 65536 or more (recommended: 1280×1024 dot or more)

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5. Models and External Dimensions **Main Unit**

MX100

Model	Suffix Code			de	Description		
MX100					Main module		
Software language	-E				English (with MX100 standerd software)		
Supply voltage		-1			100 VAC-240 VAC		
Power supply inlet and power		D		3-pin power intel with UL/CSA cable			
supply cord	F				3-pin power intel with VDE cable		
		R			3-pin power intel with SAA cable		
	Q H W				Q		3-pin power intel with BS cable
					H		3-pin power inlet with CCC cable
				Screw terminal (power supply cord is not attached)			
Options /DS		/DS	Dual save function				

MW100

Model	Suffix Code		ode	Added Specifications Code	Description
MW100					Main module *1,2
Language	-E				English (comes with MW100 Viewer Software)
Supply voltage		-1			100 VAC-240 VAC
		-2			12 to 28 VDC, with AC adapter *3
		-3			12 to 28 VDC, without AC adapter *4
Power input type an supply cord	Power input type and power D supply cord F		D		AC power: 3-pin power inlet with UL/CSA cable DC power: Screw terminal, UL/CSA cable for AC adapter
			F		AC power: 3-pin power inlet with VDE cable DC power: Screw terminal, VDE cable for AC adapter
			R		AC power: 3-pin power inlet with SAA cable DC power: Screw terminal, SAA cable for AC adapter
			Q		AC power: 3-pin power inlet with BS cable DC power: Screw terminal, BS cable for AC adapter
	H			AC power: 3-pin power inlet with GB (CCC) cable DC power: Screw terminal, GB (CCC) cable for AC adapter	
			W		Screw terminal (does not come with a power supply cord) *3,4
Options				/C2	RS-232 communication interface *5, 6
	•			/C3	RS-422-A/485 communication interface *5,6
				/M1	MATH functions *6,7
				/M3	Report mathematical function
				/SL1	10-CH Quick Start Package
				/SL2	20-CH Quick Start Package
				/SL3	30-CH Quick Start Package

- CF (compact flash) card not included.

 Modbus/TCP function comes standard

 "W cannot be selected with "2"

 With "3, only W (screw terminal) can be selected

 (C2 and (C3 cannot be selected together.

 (C2 and C3 cannot be selected together.

 Aso, "Mit" must be selected when using the Modbus/RTU slave function.

 M1 must be selected when using the Modbus/TCP client function.

Accessories

Model	Suffix Code	Description
772061		10 ch screw (M4) terminal block (RJC included) *1
772062		Cable between input module and screw terminal blocks *2
Cable length	-50	50 cm cable
	-100	100 cm cable
772063		Plate with clamp terminals (RJC included) *3
772064		Clamp terminal *4

- | Liamp terminal **
 | T72061 is not yompatible with the MX110_UNV-M10 (10-CH, Medium Speed Universal Input Module), MX116_PLS-M10 (Pulse Input Module), MX115_D0S-H10 (10-CH High, Speed S V D1 Module), and MX115_D26+H10 (10-CH High, Speed 34 V D1 Module)
 | T72067 is not yompatible between the MX110_UNV-M10 (10-CH, Medium Speed Universal Input Module) and screw terminal block (772061), MX14_PLS-M10 (Pulse Input Module) and screw terminal block (772061), MX115_D0S-H10 (10-CH High-Speed 54 V D1 Module) and screw terminal block (772061), and MX115_D0S-H10 (10-CH High-Speed 34 V D1 Module) and screw terminal block (772061), and MX115_D0S-H10 (10-CH High-Speed 34 V D1 Module) and screw terminal block (772061), and MX115_D0S-H10 (10-CH High-Speed 34 V D1 Module) and screw terminal block (772061), and MX115_D0S-H10 (10-CH High-Speed 34 V D1 Module) and screw terminal block (772061).
- (772061) so not compatible with the MX110-UNV-M10 (10-CH, Medium Speed Universal Input Module), MX114-PLS-M10 (Pulse Input Module), MX115-D05-H10 (10-CH High-Speed 5 V DI Module), and MX115-D24-H10 (10-CH High-Speed 24 V DI Module). 772064 is only compatible with the MX110-UNV-M04 (4-CH High-Speed Universal Input Module).

Model	Description
772065	Clamp terminal *5
772066	Connector cover for base plate
772067	Plate with clamp terminals *6
772068	Plate with clamp terminals (built-in bridge, 120 Ω) *7
772069	Plate with clamp terminals (built-in bridge, 350 Ω) *8
772080	Plate with screw (M3) terminals (RJC included) *9
772081	Plate with built-in shunt resistance (10 Ω) *10
772082	Plate with built-in shunt resistance (100 Ω) *10
772083	Plate with built-in shunt resistance (250 Ω) *10

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Part Name	Model	Description	
Shunt resistor (for clamp terminal)	438920	250 Ω ±0.1%	
	438921	100 Ω ±0.1%	
	438922	10 Ω ±0.1%	
Shunt resistor (for screw (M4) clamp terminals)	415920	250 Ω ±0.1%	
	415921	100 Ω ±0.1%	
	415922	10 Ω ±0.1%	
Adapter for compact flash memory card	772090		
Compact flash memory card	772091	128 MB	
	772092	256 MB	
	772093	512 MB	
	772094	1 GB	

Input/Output Modules

Subject to change without notice.

Model	Suffix Code		Added Specifications Code	Description	
MX110				Analog Input Modules	
Input type	put type -UNV -V4R -VTD			DCV/TC/DI/3-wire RTD*1	
				DCV/DI/4-wire RTD/Ω*1	
				DCV/TC/DI	
Measurement interval	Measurement interval and -H04			4-CH, high-speed (shortest measurement interval: 10 ms)	
number of channels		-M06		6-CH, medium-speed (shortest measurement interval: 100 ms) *1	
	-M10			10-CH, medium-speed (shortest measurement interval: 100 ms) *2	
-L		-L30		30-CH, Medium speed (shortest measurement interval: 500 ms)	
Options		/NC	No plate with clamp terminals*2		
·		/H3	M3 screw terminals*4		

- -M06 must be selected if -V4R is selected. Also, the -M06 specification when selecting -UNV cannot be made.
 With NC, only -M10 can be selected.
 -L30 must be selected if -VTD is selected. Also, the -L30 specification when selecting -UNV and -V4R cannot be made.
 With/H3, only-L30 can be selected.

Model	Suffix Code		Description
MX112			Strain Input Module
Input type	-B12		Internal bridge resistance: 120 Ω
	-B35		Internal bridge resistance: 350 Ω
			NDIS connector for connection to external bridge head and strain gauge type converters
Measurement interval channels	and number of	-M04	4-CH, medium-speed (shortest measurement interval: 100 ms)
			gauge type converters

Model	Suffix Code		Added Specifications Code	Description
MX114				Pulse input module
Input type	-PLS			Pulse input
Measurement interval number of channels	,	-M10		10-CH, Medium speed (shortest measurement interval: 100 ms)
			/NC	Without clamp terminal block with plate

Note:	MX100	can us	e only	API	(MX190)

Model	Suffix	Code	Added Specification Code	Description
MX115				Digital Input Module
Input type	-D05			Non-voltage contact, level (5 V logic), and open collector
	-D24			24 V logic
Measurement interval and -H10 number of channels		-H10		10-CH, high-speed (shortest measurement interval: 10 ms)
Options			/NC	No plate with clamp terminals

Model	Suffix	Code	Description
MX120			Analog output module
Output type	-VAO		Allows voltage/current output and mixed voltage/current output
	-PWM		Pulse width modulation output
Output update interva channels	and number of	-M08	8-CH, output update interval: 100 ms

Model	Suffix Code		Description
MX125			Digital output module
Output type	-MKC		A contact
Output update interval and number of channels		-M10	10-CH, output update interval: 100 ms

Model	Suffix Code	Description
MX150		Base plate
Base type	-1	1 main module, for connecting 1 input/output module
	-2	1 main module, for connecting 2 input/output modules
	-3	1 main module, for connecting 3 input/output modules
	-4	1 main module, for connecting 4 input/output modules
	-5	1 main module, for connecting 5 input/output modules
	-6	1 main module, for connecting 6 input/output modules

Application Software

MX100

Model	Description
MX180	MX100 Standard Software (for connecting to the 1 unit).
WX103	MXLOGGER (for connecting multiple unit, up to 20 units).
MX190	API for MX100 and DARWIN (group of functions for creating programs).

MW100	
Model	Description
MW180	MX100 Viewer Software

MX100/MW100

Model	Description
WX101	DAQLOGGER (for mixed connections of the MX, DARWIN, MV, DX, and µR)
WX1	Gate MX/MW (for connecting to the DAQLOGGER)

External Dimensions

