





Portable Paperless Recorder *INV1000/INV2000*

www.mv1000.com

Bulletin 04Q01A01-01E

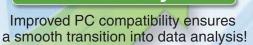
Introducing the portable recorder with evo lutionary high reliability and ease-of-use!

Measurement scenarios that call for speed and accuracy: MVAdvanced accurately captures precious evaluation data on the test bench and in the field, and helps to cut down on manhours.

Easy Setup The simplified interface lets you start measuring sooner! **Reliable Recording** You can now record even more channels over even longer durations **Smart Analysis**

Easy-to-read Display

Incredibly clear LCD monitor. Improved monitor interface!

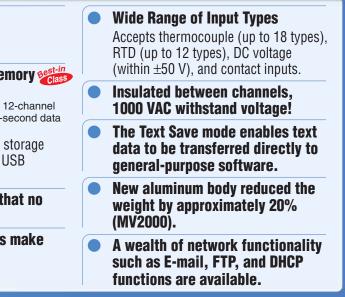


Multi-point Input MV1000: 24-channel input MV2000: 48-channel input

- Reliable Long-duration Memory Internal memory: 200 MB (Approximately 75-day continuous 12-channel measurement data storage at a 1-second data storage interval) Data can be stored in external storage media, such as a CF card and USB memory.
- Setup is fast and so easy that no manual is required.
- **Removable input terminals make** wiring easier.



. MVAdvanced



MV1000/MV2000

Easy Setup

The simplified interface lets you start measuring sooner!

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Quick Setup mode

We have put all the essential measuring options in one place. Setup is so simple and easy that there is no need for a manual.



USB equipped

Comes standard-equipped with two USB ports. You can download setup files from your PC and save measured data with the touch of a button.



Removable input terminals

Input terminals can be removed in units of 2 channels, making wiring much easier. And block terminals can be purchased separately.



Acquire the data you need with a variety of measuring modes

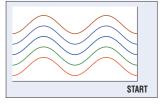
The MV1000 and MV2000 are loaded with a variety of measurement features. By matching these features to your measurement goals, you are sure to be able to collect the data you need.

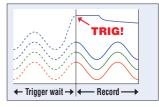
• Free mode

Data acquisition is user prompted, and acquisition of the data sequence occurs at the set sampling rate.

• Trigger modes

You can use a variety of triggers—such as alarm, external contact, time, and calculated data—to set the timing of data acquisition. By combining these with pre-trigger functions and other features, you can efficiently acquire the data you need.





Reliable Recording

You can now record even more channels over even longer durations!



Multi-channel input

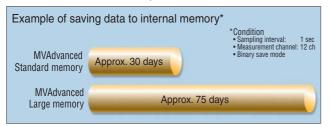
The MV1000 can support up to 24 channels (2 times as many channels as before), while the MV2000 can support up to 48 (1.6 times as many channels as before)! Naturally, every channel is isolated, and you can count on reliable data acquisition!



High-capacity memory

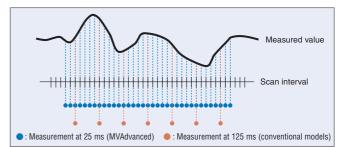
Equipped with up to 200 MB (170 times more memory than before) of internal flash memory! By backing up with external media (CF card), you can further ensure the safety of your data!

If a power outage should occur, then the unit will automatically resume measurement when power returns.



High-speed sampling

By measuring in high-speed mode, you can attain a minimum measurement interval of 25 ms for every channel (MV1004, MV1008, and MV2008). With a measurement interval that is 5 times faster than before, you can acquire more detailed data.



External input gives you up to 348 channels

By connecting to the DAQMASTER Series MW100, you can increase channel input by a maximum of 300 channels. Connection is as easy as the touch of a button!



Easy-to-read Display

Incredibly clear LCD monitor. Improved monitor interface!

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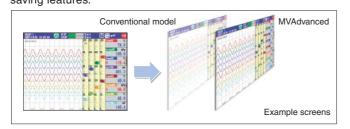
AAV 1000

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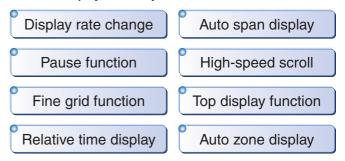


GROUP 1 2007/10/01 18:22:24 😡 EVENT

With a wider viewing angle and a well-defined, vivid display, we have dramatically improved the viewing experience. We have also included brightness adjustment and screen saving features.

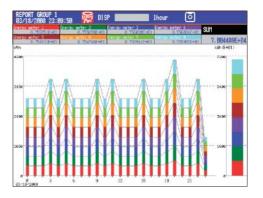


Full of display features you can use



Integral bar graph display

For example, when connecting to a flow meter or a power monitor, you can use bar graphs to check integrated values!



Smart Analysis

Improved PC compatibility ensures a smooth transition into data analysis!



Text save mode

Data measured using the MV1000/MV2000 can be saved in text format to a CF card or to USB memory. This enables you to view data directly without using dedicated software. If you are concerned with security, the option to save data in binary format is also available.



Application software [DAQSTANDARD DXA120]

This is the software package that comes standard with the MVAdvanced. You can use your PC to analyze data saved on the MVAdvanced. You can also arrange settings on your PC and download them to the unit.





Package software [DAQWORX] (Available in April, 2008)

DAQWORX is a software package that enables you to integrate the Yokogawa recorders, data loggers, and controllers in your data acquisition system. DAQWORX enables you to build a system that can handle anything from small scale networks to distributed multichannel data acquisition.



A data logging software program that enables you to use the Ethernet and serial communication simultaneously. You can combine up to 32 machines, such as the MVAdvanced, DXAdvanced, DARWIN, and μR recorder for a total of 1600 channels of data acquisition.

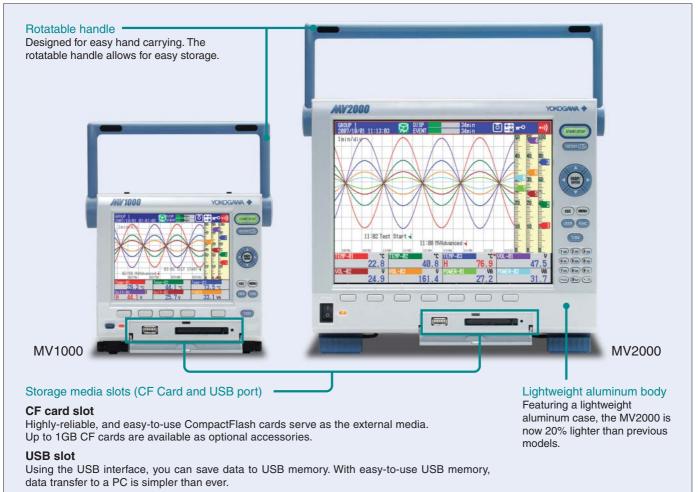


DAQEXPLORER

This is a software package that, on top of the features of the DAQSTANDARD package, also has both file transfer and PC monitoring functions. You can easily make full use of the MVAdvanced's wide range of networking features.

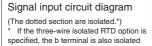
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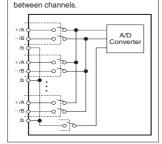
Hardware to ensure reliability



Isolated channel inputs

DC voltage and thermocouple inputs in all MVAdvanced models are channel-isolated. (Channel isolation for RTD inputs is optional on some models.) The high common mode noise characteristic enabled by isolated channel inputs ensures stable measurements in a wide range of applications.





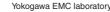
Compliance with safety standards and EMC standards

Another indication of the reliability of MVAdvanced is their compliance with the stringent specifications for international safety and electromagnetic compatibility (EMC) standards. Of course, MVAdvanced have also been approved for the CE standards.

CSA: CSA22.2 No61010-1, installation category

8





II, pollution degree 2 UL: UL61010-1 (CSA NRTL/C) CE: EMC directive: EN61326 compliance (Emission: Class A, Immunity: Annex A) EN61000-3-2 compliant EN61000-3-3 compliant EN55011 compliant, Class A Group 1 Low voltage directive: EN61010-1 compliant, measurement category II, pollution degree 2 C-Tick: AS/NZS CISPR11 compliant, Class A Group 1

• High-breakdown-voltage solid-state relays

MVAdvanced uses high-breakdown-voltage solid-state relays developed by Yokogawa as scanners for switching input signals.

These relays consist of MOSFETs capable of withstanding high voltage (1500 V DC) with low leakage current (3 nA), and power-output photocouplers. They provide highspeed scanning (125 ms/48 channels in the MV2048) while increasing scanner life and eliminating noise.



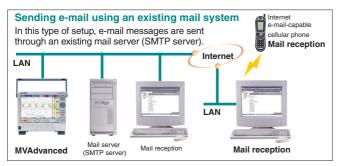


Comprehensive network functions

We have made the network functions more comprehensive. In addition to e-mail, Web server, and FTP functions, this model comes with time synchronization (SNTP), and automatic network configuration (DHCP). We have equipped this model with all of the latest network technology.

E-mail transmission functions

The MVAdvanced can send alarm information, periodic instantaneous values, report data, and other information via email. The MVAdvanced also features a POP Before SMTP function for transmission authentication.



Easy monitoring via Web browser

The MVAdvanced has Web server features that make it easy to use a Web browser, such as Internet Explorer, to monitor the device and retrieve files stored in internal memory.



Time synchronization (SNTP) function

By using the SNTP client function, you can synchronize the time on the MVAdvanced to an SNTP server. You can also set up the MVAdvanced for use as an SNTP server.

A rich variety of options and accessories

The MVAdvanced features a rich variety of options and accessories. Get the most out of the MVAdvanced by combining these options and accessories to suit your needs.

Battery model (Available in June, 2008.)

The battery model is equipped with a battery that lasts for up to about 8 hours (2x the duration of previous models). This will enable you to acquire data in places where there is no power supply. (Note: The maximum period of continuous use will vary according to operating conditions)

Calculation functions

In addition to basic arithmetic, it is possible to calculate the highest value within a set time period, the lowest value, the average value, and the integrated value

The results of these calculations can be produced in hourly, daily, or monthly reports.

Block terminals (for use with clamp terminals)

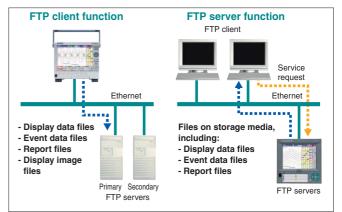
These are removable terminals that are useful when connecting and disconnecting any kind of sensor. Extremely convenient for users who



change sensors frequently.

File transfer using FTP

With the MVAdvanced's FTP server/client features, it is easy to use a fileserver for data sharing and centralized data management.

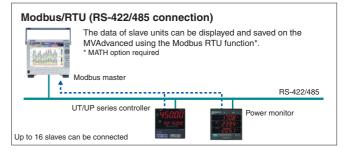


Automatic network configuration (DHCP)

The DHCP function makes it possible to set the IP Address and other network settings of the MVAdvanced automatically, thus making it easier to use the MVAdvanced on a network.

Modbus/TCP function Modbus/RTU function

You can connect the MVAdvanced to other devices and load/ save data using the Modbus protocol.



Standard specifications

Weight and dimensions	
MV1000 external dimensions:	189 (W) $ imes$ 177 (H) $ imes$ 259 (D)
MV1000 weight:	Approx. 3.5 kg (MV1024)
MV2000 external dimensions:	307 (W) × 273 (H) × 260 (D)
MV2000 weight:	Approx. 5.6 kg (MV2048)

Input components	
Number of inputs:	MV1000: 4, 6, 8, 12, or 24 channels
	MV2000: 8, 10, 20, 30, 40 or 48 channels
Measurement intervals:	MV1004, MV1008, MV2008: 125 ms, 250 ms, or 25
	ms in High-Speed mode
	MV1006, MV1012, MV1024, MV2010, MV2020, MV2030,
	MV2040, MV2048: 1 s (100 ms not possible for A/D
	integra tion time), 2 s, 5 s, or 125 ms in High-Speed mode
	* A/D integration time is fixed at 1.67 ms in High-
	Speed mode
Points to consider when using H	ligh-Speed mode:
	When using High-Speed mode (an A/D integration
	time of 1.67 ms) with the MVAdvanced, power supply
	noise and other factors may cause the measured
	values to fluctuate.
	If this is the case, then measure using Normal mode
	(an A/D integration time of 16.7 ms, 20 ms, or 100 ms).
Input types:	DCV (DC voltage: 20, 60, 200 mV, 2, 6, 20, 50 V, 1-5 V)
	TC (thermocouple type: R, S, B, K, E, J, T, N, W, L,
	U, WRe)
	RTD (resistance temperature detector: Pt100, JPt100)
	DI (at the contact input or the TTL level)
	DCA (DC current; with external shunt resistor)
Measuring range, measurement	accuracy, and display resolution by typical input type

Range Measurement accuracy (when the integration time is 16.7 ms or more) Input Display resolution DCV 1-5V \pm (0.05% of rdg+3 digits) 1 mV 0.1°C Thermocouple* К ±(0.15% of rdg+0.7°C)

0.1°C

Resistance thermometer detector Pt100 \pm (0.15% of rdg+0.3°C) * Does not include the accuracy of reference junction compensation

Display	
Display device:	MV1000: 5.5-inch TFT color LCD (320 \times 240 dots)
Display device.	MV2000: 10.4-inch TFT color LCD (640×480 dots)
	Note: The LCD may contain some pixels that are
	always lighted or that never light, and variations in
	brightness may occur due to the characteristics of
	liquid crystals. Please note that these are not defects.
Display groups:	Number of display groups:
Biopiay groups.	MV1000: 10 groups, MV2000: 36 groups
	Maximum number of channels assignable per group:
	MV1000: 6 channels, MV2000: 10 channels
Displayed colors:	Trend/bar graph display: 24 available colors
Bioplayou obioro.	Background: White or black
Trend display:	Display types: Vertical, horizontal, horizontal wide,
nona alopiaj:	separated horizontal.
Bar graph display:	Direction: Vertical or horizontal
Digital display:	Update rate: 1 s
Overview display:	Channel number: Displays a list of all measurement
	and MATH channels along with their alarm states.
	Information display: Alarm Summary display, Message
	Summary display, Memory Summary display, Report
	display, Relay Condition display, Modbus Condition
	display
Log display:	Log display content: Log-in log, Error log, Trans-
0 1 9	mission log, FTP log, Web log, E-mail log, SNTP log,
	DHCP log, Modbus log
Tag display:	Max. displayable characters: 16
	Displayable characters: Alphanumeric characters
Message display:	Max. displayable characters: 32
	Displayable characters: Alphanumeric characters
	Historical display function: Allows for the display of
	data stored to internal or external memory.
LCD screen saver function:	You can to dim or turn OFF the LCD backlight if
	there are no keystrokes for a set time (1, 2, 5, 10, 30
	min, or 1 hour).
Display screen registration fun	
	You can assign a name to a display screen and
	register it.
	Max. registered screens: 8
Memory features	
External media:	Media: Compact Flash (CF) card
Internal memory:	Media: Flash memory
memory.	Memory size: 80 MB or 200 MB (selected when
	purchasing)
Sample time:	Examples of internal memory sample times (with the
Sample lille.	MV1012 recording only event data files for 12
	measuring channels and no calculation channels).
	measuring charmers and no calculation charmers).

s 120 s
Approx.
ears 24 years
. Approx.
ars 9.6 years
nt data files
manually.
ata. ory (if equippe CF card at a card at a set
en finished ent data and ry or text for- emory in bi-
aveform up-
ment/ memory
ion): a CF card at
kly, daily +
Trigger mode. It set the data
to a CF card. memory (if paded and
ata can be save ant with USB rpes of USB
rence high/low
ot be set
ent interval
larm type) or gital display
t event.
t e

Security features	
Description:	You can customize key lock and login security functions for any transmission or keyboard command.
Key Lock:	Sets a password-protected key lock on all command keys and FUNC screen operations.
Login:	Limits access to the MVAdvanced with a login that prompts for username and password.
Security levels and user numbers:	System administrators: 5
	General users: 30
Clock features	
Clock features Clock:	Comes with a calendar function (for the western calendar)
Clock:	calendar)
Clock:	calendar) \pm 10 ppm (does not include the less than one second delay that occurs when turning the power on)



					<i></i>
Protocols implement		DP, IP, ICMP, ARP, DHCF Iodbus, and MV dedicat		Max. calculation channels:	MV1004, MV1008: 12 channels MV1006, MV1012, MV1024: 24 channels
E-mail transmission	functions (E-mail clie				MV2008: 12 channels MV2010, MV2020, MV2030, MV2040, MV2048: 60
		er events.			channels
FTP client functions:		tically sends data files to		Max. equation length:	120 characters
		ttable files: Display data ata files, screen snapsh	, , ,	Calculation types:	General calculations: Basic arithmetic, square root, absolute value, common logarithm, natural logarithm
TP server functions		nsfer and delete files, ma			exponent, power, relational operations ($<, \le, >, \ge, =,$
M. I		duce file lists remotely from			≠), logical operations (AND, OR, NOT, XOR)
Neb server function: SNTP client function		s MV screen images on a a specified SNTP serve			Statistical calculations: TLOG (maximum value, minimum value, average value, integrated value, and
		nizes with it.			P-P value for time series data)
		ery methods: Set interva	al, start of memory		CLOG (maximum value, minimum value, average
SNTP server function		manual ts the MV time settings v	via SNTP protocol.		value, integrated value, and P-P value for a set channe Special calculations: PRE, HOLD(a):b, RESET(a):b,
OHCP client function	n: Automa	tically retrieves the netw			CARRY(a):b
		DHCP server. tion retrieved automatica	ally:		Conditional statement: [a?b:c] Max. settable constants: 60 (K01 to K60)
		ess, subnet mask, defau		Report function:	Report types: Hourly, daily, hourly + daily, daily +
A	informa				weekly, daily + monthly
Modbus client function		ata from other devices us alculation option (/M1) or			Calculation types: Reports can be calculated using a combination of up to four of the following: Average,
	channe	option (/MC1) is require	ed to load data.		maximum value, minimum value, integrated value, a
Modbus server funct	ion: Data ca	n be read from the MV usi	ng the Modbus protocol.		instantaneous value.
				Cu10/Cu25 RTD input/3-wire	Enables the use of Cu10 and Cu25 inputs in addition
Batch function	A11 -	an data diante dete			to the standard inputs.
Description:		or data display, data mai s, and batch comment ir	•	3-wire isolated RTD input (/N2)	2)All RTD (resistance thermometer detector) terminals (A, B, and b) are isolated.
	lanettor	e, and bater commentin	apar doing batorios.		Note: Only available with the MV1006, MV1012,
Power supply					MV2010, MV2020, MV2030, MV2040, and MV2048
AC power supply:	Rated s	upply voltage: 100 to 26	4 VAC (auto switching)	 External input (/N3) 	Enables the use of the following thermocouples and RTDs in addition to the standard inputs.
DC power supply:	Rated s	upply voltage: 12 VDC/2	4 VDC		TC: Kp vs Au7Fe, PLATINEL, PR40-20, NiNiMo, W/
AC power supply:	Operati	ng supply voltage range: 90 to 132, 180			Wre26, TypeN(AWG14)
DC power supply:	Operati	ng supply voltage range:			RTD: Pt25, Pt50, Ni100(SAMA), Ni100(DIN), Ni120, J263*B, Cu53, Cu100
		10.0 to 28.8 VD	C	 Remote control (/R1) 	The MV can be controlled through contact input (up
Power consumption MV1000 power cons	umption				8 inputs can be set). 24 VDC transmitter power supply (/TPS2*, /TPS4*)
Supply voltage	With LCD screen saver o	n Normal use	Maximum	Output voltage:	22.8 to 25.2 VDC (for rated current load)
100 VAC	15 VA	30 VA	45 VA	Rated output current:	4 to 20 mADC
240 VAC	25 VA	40 VA	60 VA	Maximum output current:	25 mADC (overcurrent protection level: approximatel 68 mADC)
12 VDC	7 VA	14 VA	24 VA		* /TPS2 is only available for the MV1000, /TPS4 is
MV2000 power cons	umption	- ·			only available for the MV 2000
•		n Nermel use	Maujuan	Pulse input (/PM1)	Contact and open-collector pulse input is possible through the use of special remote input terminals.
Supply voltage 100 VAC	With LCD screen saver of 28 VA	40 VA	Maximum 65 VA		The calculation functions (/M1) and remote control
240 VAC	38 VA	54 VA	90 VA		(R1) options are included in the pulse input option. Number of Inputs: 3 channels (however, if the remote
12 VDC	9 VA	18 VA	35 VA		control input terminals are used for pulse input, then
Normal operating co	nditions				up to 8 channels can be made available)
Supply voltage:	lialions				Input methods: Photocoupler isolation (no isolation between channels)
		er supply: 90 to 132, 180			Internal isolated power supply (approx. 5 V)
Supply frequency:		er supply: 10.0 to 28.8 V !%, 60 Hz±2%	DC		Input types: Dry contact, open collector (TTL or transisto
Ambient temperature				Input value correction (/CC1)	Ten-segment linearizer approximation can be used or every measurement channel to correct input values.
Ambient humidity:	20 to 80	% RH (at 5 to 40°C)			Settable broken-line points: 2 to 16
				Channel expansion (/MC1, or	Ily available on the MV2000) You can use the Modbus master function to load data
Optional specific					from other devices, and set data through the use of
 Alarm output relay 	/s (/A1, /A2, /A3, /A4) Activate	s the relay output on the	e rear panel when an		communication input commands. Additional channel
	alarm o	ccurs			are provided for communication input. Note 1: Only available with the MV2010, MV2020,
Output points:		from 2, 4, 6, or 12* vith the MV2000			MV2030, MV2040, and MV2048
		allable on the MV1008 o	or MV1024		Note 2: When equipped with the external input chanr option, the High-Speed mode measurement interval
 Serial communica 	(, ,	000 (100)	10F //		unavailable.
Media:	EIA RS- compati	-232 (/C2) and RS-422/4 ble	iour-wire) (/C3)		Number of external input channels: 240 channels
Protocols impleme	ented: The dec	licated protocol and the	Modbus (master/		(channel numbers 201 to 440)
Sottingo/magazine	slave) p				
Settings/measurer	ment server functions Using th	: ne dedicated protocol, th	e following functions		
	are avai	lable	, i i i i i i i i i i i i i i i i i i i		
	Settings comma	and commands equival	lent to the unit's key		
	Data ou				
	ave functions: Loads d	ata from other devices u			·
* The calculation of to load data.	option (/M1) or the ex	ternal input channel opti	on (/MC1) is required		
 Fail/status output i 		s a relay output upon the			
	abnorm	ality on the MV or a set of	condition.		
Calculation function		s calculations as well as ds or numeric values of		The second se	
	listed be				

MV1000 Rear panel

MV2000 Rear panel

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MODEL AND SUFFIX CODES

Model code	Suffix co	de Optio		
MV1004	/1004		MVAdvanced MV1000 4 ch, 125 ms (Fast sampling mode: 25 ms	
MV1006			MVAdvanced MV1000 6 ch, 1 s (Fast sampling mode: 125 ms	
MV1008 *9			MVAdvanced MV1000 8 ch, 125 ms (Fast sampling mode: 25 ms	
MV1012			MVAdvanced MV1000 12 ch, 1 s (Fast sampling mode: 125 ms	
MV1024 *9			MVAdvanced MV1000 24 ch, 1 s (Fast sampling mode: 125 ms)	
Internal	-1		Standard Memory (80 MB)	
Memory	-2		Large Memory (200 MB)	
Extranal Media	-4		CF card (with media) + USB	
Language	-2		English/German/French	
	-4		Korean	
Input Terminal	-1		Clamped terminal	
-	-2		Screw terminal (M4)	
Power Supply	-1		100 VAC, 240 VAC	
,	-2	2	12 VDC 1	
Power Code		м	Power cord PSE Standard	
		D	Power cord UL/CSA Standard	
		F	Power cord VDE Standard	
		R	Power cord SAA Standard	
		Q	Power cord BS Standard	
		н	Power cord GB Standard	
		w	without AC adapter, Power code ^{*2}	
Options		/A1	Alarm output 2 points "3 *9	
•		/A2	Alarm output 4 points *3*9	
		/A3	Alarm output 6 points "3*4*9	
		/C2	RS-232 interface *5	
		/C3	RS-422/485 interface ^{*5}	
		/F1	FAIL/Status output *4 *9	
		/M1	Mathematical functions	
		/N1	Cu10,Cu25 RTD input/3 leg isolated RTD	
		/N2	3 leg isolated RTD *6	
		/N3	Extended input type (PR40-20, JPt50, etc.)	
		/B1	Remote control ¹⁹	
		/TPS		
		/PM1		
		/CC1	Calibration correction function	
8 In case that /PM1	cannot be sp ot be specifie 2 is specified is specified,	ecified toge ed together. d, /A2, /A3, / , /A3, /M1, /F	ther. *4 /A3 and /F1 cannot be specified together.	

And The /A1/F1 combination cannot be specified at the same time. *9 In case that MV1008, MV1024 is specified, /A1, /A2, /A3, /F1, /R1, /TPS2 and /PM1 cannot be specified together.

STANDARD ACCESSORIES

1
5
1
1
1
1 *1
1 *2

*2 12VDC Power supply (When specified the "-2" Power supply specification code

ACCESSORIES

Product	Model code (part number)	Specification
Shunt resistor	415920	250Ω±0.1%
(for screw input terminal)	415921	100Ω±0.1%
	415922	10Ω±0.1%
Shunt resistor	438920	250Ω±0.1%
(for clamped input terminal)	438921	100Ω±0.1%
	438922	10Ω±0.1%
CF card	772091	128 MB
	772092	256 MB
	772093	512 MB
	772094	1 GB
Removable clamped imput terminal	A1923JT	for 2 channels

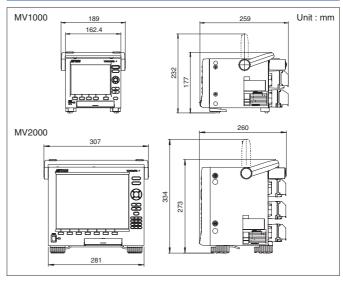
APPLICATION SOFTWARE

Model	Description	OS
DXA120	DAQSTANDARD	windows2000, XP, Vista

Model code	Suffix	code	Option code	Description
MV2008			oode	MVAdvanced MV2000 8 ch, 125 ms (Fast sampling mode: 25 ms
MV2008			MVAdvanced MV2000 10 ch, 1 s (Fast sampling mode: 125 ms	
MV2020				MVAdvanced MV2000 20 ch, 1 s (Fast sampling mode: 125 ms
MV2030				MVAdvanced MV2000 30 ch, 1 s (Fast sampling mode: 125 ms
MV2040				MVAdvanced MV2000 40 ch, 1 s (Fast sampling mode: 125 ms
MV2048				MVAdvanced MV2000 48 ch, 1 s (Fast sampling mode: 125 ms
Internal	-1			Standard memory (80 MB)
memory	-2			Large memory (200 MB)
External media	-4			CF card (with media) + USB
Language	-2			English/German/French
3.3	-4			Korean
Input terminal		1		Clamped terminal
	-2	2		Screw terminal (M4)
Power supply		-1		100 VAC, 240 VAC
,		-2		12 VDC 1
Power cord		М		Power cord PSE Standard
		D		Power cord UL/CSA Standard
		F		Power cord VDE Standard
		R		Power cord SAA Standard
		Q		Power cord BS Standard
		н		Power cord GB Standard
		W		without AC adapter, Power code ^{*2}
Options			/A1	Alarm output 2 points *3
			/A2	Alarm output 4 points *3
			/A3	Alarm output 6 points *3
			/A4	Alarm output 12 points *3 *4
			/C2	RS-232 interface *5
			/C3	RS-422/485 interface *5
			/F1	FAIL/Status output *4
			/M1	Mathmatical functions
			/N1	Cu10,Cu25 RTD input/3 leg isolated RTD
			/N2	3 leg isolated RTD *6
			/N3	Extended Input type (PR40-20, JPt50, etc.)
			/R1	Remote control
			/TPS4	24 VDC transmitter power supply (4 loops) *7
			/PM1	Pulse input (including remote control and mathematical functions)
			/CC1	Calibration correction function
			/MC1	External input function *9

 *1 An AC adapter is included as a standard accessory.
 *2 W can be specified for or
 *3 (A1, /A2, /A3 and /A4 cannot be specified together.
 *4 (A4 and /F1 cannot be specified together.
 *6 (A2 can AC to specified 100 ether.
 *6 (A2 can be specified for only MV2010, MV2020, MV2040 and MV2048.
 *7 In case that /TPA is specified, /A4 cannot be specified together.
 *8 (A1 TPA is specified, /A4 cannot be specified together.
 *8 In case that /PM is specified, /A4, M1, /H1 cannot be specified together.
 *9 (MC1 can be specified for only MV2010, MV2020, MV2040, MV2048. *2 W can be specified for only 12 VDC *4 /A4 and /F1 cannot be specified together.

DIMENSIONS



NOTICE

- Before operating the product, read the user's manual thoroughly for proper and safe operation.
- If this product is for use with a system requiring safeguards that directly involve personnel safety, please contact the Yokogawa sales offices



YOKOGAWA ELECTRIC CORPORATION

Network Solutions Business Div./Phone: (81)-422-52-7179, Fax: (81)-422-52-6619 E-mail: ns@cs.jp.yokogawa.com

YOKOGAWA CORPORATION OF AMERICA YOKOGAWA EUROPE B.V.

YOKOGAWA ENGINEERING ASIA PTE. LTD.

Phone: 800-888-6400, Fax: (1)-770-251-6427 Phone: (31)-33-4641806, Fax: (31)-33-4641807 Phone: (65)-62419933, Fax: (65)-62412606

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