



Paperless Recorder

Bulletin 04L21B01-01EN

www.FxRecorder.com





Premium paperless recording technology and performance at an entry-level price

At YOKOGAWA, we are committed to the "quality first, customer first" principle in all areas of our business, including product design, research and development, and sales and services. The new FX1000 paperless recorder exceeds customer expectations for guality, high performance and capability- at a price that meets the needs of a cost-sensitive market.

Intuitive display, easy operation

- 5.7-inch, high-precision, wideviewing-angle color TFT LCD
- Many types of displays such as trend, digital, bar graph, overview, alarm, and historical trend
- Remote viewing of the FX1000 screen through the Internet
- Multi-functional panel keys

Multi-Channel Measurement and Recordina

Universal input signal measurement



SD memory card support (External storage medium slot Suffix code: -7)

Comprehensive selection of measurement types, and exceptional performance

- Input types: DCV, TC, RTD, DI
- Scan interval: 1 s, 125 ms (fast sampling)
- Channels: 2, 4, 6, 8, 10, 12
- Measurement accuracy:
 - ±0.05% of reading (DCV), ±0.15% of reading (TC, RTD)

Reliable data storage

- Large (400 MB) internal memory
- SD cards up to 32 GB or CF cards
- up to 32 GB
- USB interface (option)
- Binary data storage
- Network enables data redundancy



High capacity internal memory

Standard 400MB non-volatile flash memory for secure, long term recording

Media FIFO function

This function ensures that the CF card or SD card always retains the latest data when files are saved to it automatically. When the CF card or SD card is full, the oldest files are deleted to make room for the newest files. The media FIFO function allows you to use the FX

continuously for long periods of time without having to change the CF card or SD card.



Compact dimensions for easy panel & enclosure installation

Shallow case depth behind the panel of **162 mm** (6.4")

Water- and dustproof

Complies with IEC529-IP65, except side-by-side mounting

Intuitive operator control

The DISP/ENTER and arrow keys provide display mode and setting menu navigation. Clearly labeled menu, function, and record start/ stop keys handle all setting and control operations.

Support for a variety of applications

- Power measurement recording (/PWR1, /PWR5 option)
- Vacuum pressure recording (Log scale, option)
- Flow rate summation (option)
- See "Applications" on the next page.

Monitor display

You can use the keys to switch to any of the operation screens. The operating states of memory sampling, alarms, key lock, computation, and other conditions are graphically displayed. Supports Chinese, English, German, French, Italian, Spanish, Portuguese, Russian, Korean, and Japanese.

30.0

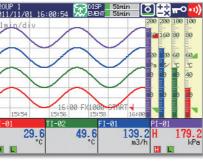
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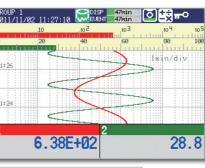
TI-01

H L

TI-02



Trend display Displays measured data as waveforms. Displays each channel's scale value, industrial units, user messages, and other information



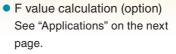
Trend display (Log scale) You can display log scales for degree of vacuum (pressure input), and record the data (option)

Bar graph, historical trend, and information displays (alarm summaries, message summaries, and reports) are also included

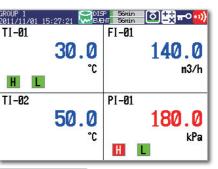
2

construction Space-saving design Waterproof and dustproof

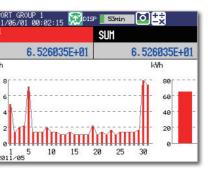
- (IP65 compliant)







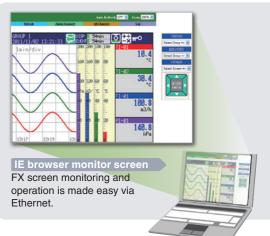
Digital display In addition to displaying measurements digitally, it displays channel/ tag, industrial units, and alarm statuses.



Stacked bar graph You can display and record power consumption of each piece of electronic equipment: useful for energy saving and equipment maintenance as part of environmental protection programs (option)

2011/11/01 10:10:10 2015 IN-V01	P 56min O 式 🔍 OUT-V04	
H Ø.7724 V	0.773 V	
IN-V02	Load	
0.773 V	23.17 kg/mm	
IN-VØ3	PRESS	
0.773 V	579.8 kPa	

Overview display Displays measurements and alarm statuses on all channels



Applications



Secure Monitoring and Recording for a Wide Range of Applications

FX1000 combines a clear view of process data with highly reliable recording and efficient data access. Network file transfer and web browser viewing improves efficiency and saves time. Use the Power Monitor option to monitor and record energy consumption on equipment to learn true energy usage costs and for diagnostic and preventive maintenance purposes.

Temperature Recording/Monitoring for Aluminum Casting

Simplifies casting temperature guality management.

- Molten metal temperature Cooling water temperature
- Archives data upon alarm occurrence Analysis alarm data

- Displays and records aluminum casting data

Managing Sterilization of Food Industry

- Automatically computes F0 value according to temperature

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variety of data in an easy-to-understand format

- Select from a variety of inputs (universal input)

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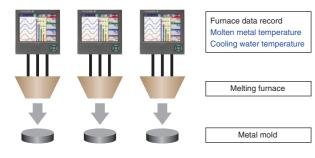
current)

temperature (/M1, /PM1, /PWR1 or /PWR5 options)

temperature, pressure, etc.)

(Acquisition of Sterilization/Pasteurization Data)

Measurement ON/OFF through external contact input (/R1, /PM1 options)



MATH function (/M1, /PM1, /PWR1 or /PWR5 options) enables recording

- Computed results are recorded together with temperature and other parameters (Foodstuff

Stean

(and F value calculation) of sterilization and pasteurization processes.

Display and Recording of Data from Environmental Testing

Equipment (Acquisition of Test Data from a Thermostatic Chamber)

Measures environmental testing data, and displays and records a

- Automatically computes relative humidity from dry bulb temperature and web bulb

- Computed results are recorded together with temperature and humidity (pressure and

Ş

Drv bulb

Wet bulb

temperature

abnormalities Outer Take-up or Extrude auto coiler Supply Measurement

Management of an Electrical Wire Coating Process

process for monitoring insulation quality.

- Select from a variety of inputs (universal input)

(Acquisition of Data on Wire Temperature and Outer Diameter)

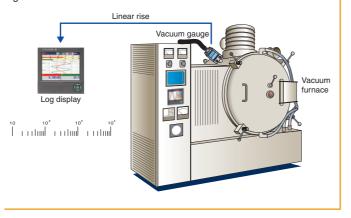
- Displays temperature and wire diameter simultaneously for monitoring of correlations

Displays outer diameter and temperature in a electrical wire coating

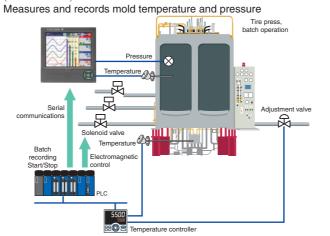
- On-site monitoring and recording of diameter, temperature, and alarms upon occurrence of

Vacuum Gauge Recording

Physical quantities of voltage converted to logs are input to the FX, and those physical quantities are displayed and recorded on the FX log scale.



Controlling Temperature and Pressure in Tire Manufacturing (Vulcanization)



Specification • Performance

STANDARD SPECIFICATIONS					
GENERAL SP	ECIFICATI	ONS			
 Construction 					
Mounting:	Flush p	anel mounting (on a vertical plane)			
0		ng may be inclined downward up to 30 de	grees from a		
	horizon	tal plane.			
Allowable panel t	hickness:				
	2 to 26				
Front panel:		and dustproof: Complies with IEC529-IP6	65 (excluding		
	side-by	-side mounting)			
●Input					
Number of inputs		2: 2 channels, FX1004: 4 channels, FX100			
M		8: 8 channels, FX1010: 10 channels, FX101	2: 12 channels		
Measurement int		2, FX1004: 125 ms, 250 ms			
		5, FX1008, FX1010, FX1012: 1 s, 2 s, 5 s			
Inputs:		0, 60, 200 mV, 1, 2, 6, 20, 50 V, 1-5 V)			
mpator		S, B, K, E, J, T, N, W, L, U, WRe)			
		t100, JPt100)			
		itact input, TTL level)			
		ith external shunt resistor attached)			
Measurement/dis					
Standard operati	ng condition	s: Temperature: $23 \pm 2^{\circ}$ C; Humidity: 55%	± 10%RH;		
	-	32 or 180 to 250 VAC; Power supply frequencies	-		
		ast 30 minutes. Other ambient conditions	such as		
vibration should	not adversely	y affect the operation.			
Input	Range	Measurement Accuracy	Digital Display Max. Resolution		
DCV	1-5 V	±(0.05% of rdg+3 digits)	1 mV		
Thermocouple*	к	±(0.15% of rdg + 0.7°C)	0.1°C		
		-200 to -100°C: ±(0.15% of rdg + 1°C)			
RTD	Pt100	±(0.15% of rdg+0.3°C) 0.1°C	0.1°C		
	the accuracy of	of reference junction compensation			
 Display 					
Display:		n TFT color LCD (240 × 320 dots)			
		on of the LCD monitor may contain pixels that			
		The brightness of the LCD may also not be uni	form due to the		
	charac	teristics of the LCD. This is not a malfunction.			
Display groups: Number of g	rouns: 10				
	•	can be assigned to each group: Up to siv	¢		
Display color:		······································			
Channel: Se	elect from 24	colors			
Background	: White or bla	ack (selectable)			
Trend display:	Layout:	Vertical, horizontal, or wide			
Bar graph display	: Directio	Direction: Vertical or horizontal (selectable)			
Digital display:		Update rate: 1 s			
Overview display	: Measur	Measuring values and alarm status of all channels			
Information displa	-	summary, message summary, memory su	mmary, report,		
		l bar graph, status, Modbus status			
Modbus log displ		s the login log, error log, communication			
		7), FTP log (/C7), Web log (/C7), e-mail log	g (/C7), SNTP		
Tog dioplay	log (/C7	7), and DHCP log (/C7)			
Tag display:	lienlauabla	haracters: I In to 16			
		haracters: Up to 16 English, Japanese, and Chinese			
Messages:	51141401013.				
•	lisplavable c	haracters: Up to 32 alphanumeric			
		English, Japanese, and Chinese			
Historical display					
	Plays back data from internal memory or external memory				
media.					
Back light saver f	function:				
		ck light dims or turns OFF (user selectab			
	have been pressed for a specified period (1, 2, 5, 10, 30, or 60				
	min).				
 Data Saving F 					
External storage					
Medium:		ctFlash memory card (CF card) (on FXs with	a CF card slot)		
		nory card (on FXs with a SD card slot)			
Internal memory:					
Medium:	Flash n	-			
Format:		or FAT16			
Capacity:	400 ME		dieplay data		
Maximum number of files that can be saved: 400 (total number of display data					

and event data files)

FIFO (First In, First Out)

Operation:

4





 Alarm Function Number of alarm levels: Up to four for each channel Alarm types: High limit, low limit, differential high limit, difference low limit, high rate-of-change limit, low rate-of-change limit, alarm delay high limit, and alarm delay low limit Event Action Function A particular action can be executed by particular event. General: Number of event actions: 40 actions can be set Security Functions Login function or key lock function can be set for each key General: operation or communication operation. On/off and password can be set for each operation key and Key lock function: FUNC operation. Login function: User name and password to login can be set. System administrators: 5 (with access to all operations) Users: 30 (with access to operations based on their user access rights) Clock Clock: With calendar function (Western calendar) Accuracy: ±50 ppm (0 to 50°C); does not include the delay (1 second or less) that occurs when the power is turned on. Batch Function Data display and data management with batch name, text field General: function and batch comment function are available. Power Supply Rated power supply: 100 to 240 VAC (automatic switching) Allowable power supply voltage range: 90 to 132 or 180 to 264 VAC Rated power supply frequency: 50/60 Hz (automatic switching) Power consumption: Max. 45 VA (for 240 VAC power supply) NORMAL OPERATING CONDITIONS Supply voltage: 90 to 132, 180 to 250 VAC Rated power supply frequency 50 Hz ±2%, 60 Hz ±2% Ambient temperature: 0 to 50°C Ambient humidity: 20 to 80% RH (at 5 to 40°C), 10 to 50% (at 40 to 50°C) OPTIONS •Alarm Output Relay (/A1, /A2, /A3, and /A4A)

Action:	Outputs relay contact signals from the terminals on the rear
	panel when alarms occur.
Number of outputs:	2 (/A1), 4 (/A2), 6 (/A3), and 12 (/A4A)
Relay contact rating:	250 VAC (50/60 Hz)/3 A, 250 VDC/0.1 A (for resistance load)
Output format:	NO-C-NC: Except /A4 option,
	NO-C: /A4A option
Relay operation:	Energized/de-energized, AND/OR, hold/non-hold, and reflash settings are selectable.
 RS-232 Interface 	(/C2) and RS-422A/485 Interface (/C3)
Connection:	EIA RS-232(/C2) or EIA RS-422/485(/C3)
Protocol:	Dedicated protocol or Modbus protocol
Setting/measuremen	t server function:
	Operation, setting or output of measurement data are available
	by FX private protocol.
Modbus communicat	ion:
	Reading or writing of measurement data on other instruments
	are available by Modbus protocol.*
	* The /M1, /PM1 or /PWR1, /PWR5 option is required to read data from another instrument.
Ethernet Commun	nication Interface (/C7)
Electrical and mecha	nical specifications:
	Conforms to IEEE 802.3 (Ethernet frames conform to the DIX
	specification).
Medium:	Ethernet (10BASE-T)
Protocol:	Dedicated protocol as well as the TCP, IP, UDP, ICMP, ARP, DHCP, HTTP, FTP, SMTP, SNTP, and Modbus protocols

E-mail client: Automatically send e-mail at specified times. FTP client, FTP Server, Web server, SNTP client, SNTP server, DHCP client, Modbus client, Modbus server

FAIL/Status Output Relay (/F1)

The relay contact output on the rear panel indicates the occurrence of CPU failure or selected status

Specification • Performance

•Computation Function (Including the Report Function) (/M1)

Used for calculating data, displaying trends and digital values, and recording calculated data assigned to channels.

Number of computation channels:

FX1002 and FX1004: 12 channels EX1006 EX1008 EX1010 and EX1012 24 channels

Max, characters in formulas: 120

General arithmetic operations, relational operations, logic Operation: operations, statistical operations, special operations, conditional operations

Constants: Up to 60 (K01 to K60)

Report functions:

Report type: Hourly, daily, hourly + daily, daily + weekly and daily + monthly Operation: Average, maximum, minimum, instantaneous and summation

•3-Wire Isolated RTD Input (/N2)

All the RTD input terminals (A, B, and b) are isolated on each channel. Applies to the FX1006, FX1008, FX1010, and FX1012

Note: On the FX1002 and FX1004 standard models, the A, B, and b terminals are already isolated on each channel

•Extended Input (/N3F)

This option allows the extra input types below to be added to the standard input types. TC: Kp vs Au7Fe, PLATINEL, PR40-20, NiNiMo, W/Wre26, TypeN (AWG14), XK GOST RTD: Ni100 (SAMA), Ni100 (DIN), Ni120, Pt100 GOST, Cu100 GOST, Cu50 GOST, Pt200(WEED)

•DC/AC 24 V Power Supply (/P1)

Rated supply voltage: 24 VDC and 24 VAC (50/60Hz)

Allowable power supply voltage range:

21.6V to 26.4 VDC/AC

Max. power consumption: 18 VA (24 VDC), 30 VA (24 VAC (50/60 Hz))

Remote Control (/R1)

This option allows eight functions to be controlled remotely by a contact input. •24 VDC Transmitter Power Supply (/TPS2 and /TPS4)

Output voltage:	22.8 to 25.2 VDC (under rated load current)
Rated output current	: 4 to 20 mADC
Max. output current:	25 mADC (overcurrent protection operation current: approx. 68 mADC)

USB Interface (/USB1)		
USB port:	Complies with rev. 1.1 and host function	
Number of ports:	1 (front panel)	

Connectable devices: Keyboard complies with HID Class Ver. 1.1		
	104 keyboard/89 keyboard (US) and 109 keyboard/89 keyboard	
	(Japanese)	
External medium:	USB flash memory	

Does not guarantee the operation of all USB flash memories. •Pulse Input (/PM1)

Accepts pulses via contact input or open collector signals to dedicated input

terminais (remote input).	
Pulse input option includes mathematical functions option (/M1) and remote control	
option (/R1).	

Number of inputs:	3 (8 are available if using remote inputs)
Input format:	Photocoupler isolation (shared common)
	Isolated power supply for input terminal (approx. 5 V)
Input type:	Voltage-free contact, open collector

Calibration Correction (/CC1)

Corrects the measured values of each channel using segment linearizer approximation. Number of segment points: 2 to 16

Power Monitor (/PWR1, /PWR5)

By including power measurement elements in an expression, you can measure a variety of power values. Active power, regenerative electric power, reactive power, apparent power, voltage, current,

frequency, power factor (LEAD:-, LAG: +), and electric energy (active energy, regenerative energy, reactive energy -LAG: +, reactive energy -LEAD: -, and apparent energy) The MATH option (/M1) is included with the power monitoring option. Phase and wiring system

Single-phase two-wire system, single-phase three-wire system, and three-phase three-wire system

Frequency: 45 to 65 Hz

Rated input voltage

Rated Voltage	Voltage Range (Variable)	Allowable Input Voltage
120 V	120 V	150 V
240 V	240 V	300 V

Rated input current

Optional code	Rated Current	Current Range (Fixed)	Allowable Input Current
/PWR1	1 A	1 A	1.2 A
/PWB5	5 4	5 4	6.4

Rated input power and measuring range: The VT and CT's secondary side when using VT and CT.

PAPERLESS RECORDER

Single-phase two-wire system

Ontional anda			Insuit Managerian Descal
Optional code	Input (AC)	Rated Power	Input Measuring Range ¹
/PWR1	120 V / 1 A	100 W	-120 to 120 W
/PWRI	240 V / 1 A	200 W	-240 to 240 W
/PWR5	120 V / 5 A	500 W	-600 to 600 W
/FWh5	240 V / 5 A	1000 W	-1200 to 1200 W

Single-phase three-wire system

	Optional code	Input (AC)	Rated Power	Input Measuring Range
ſ	/PWR1	200 V / 1 A	200 W	-240 to 240 W
	/PWR5	200 V / 5 A	1000 W	-1200 to 1200 W

Three-phase three-wire system

Ontional anda	Input (AC)		Input Measuring Denge	
Optional code	Input (AC)	Rated Power	Input Measuring Range	
	120 V / 1 A	200 W	-240 to 240 W	
/PWR1	240 V / 1 A	400 W	-480 to 480 W	
	120 V / 5 A	1000 W	-1200 to 1200 W	
/PWR5	240 V / 5 A	2000 W	-2400 to 2400 W	

The input measuring range when you are using a VT and CT is calculated using the following equation The measuring range must be within the input measuring ranges listed above, and the primary side input power² must be less than 10 GW.

1: Input measuring range (W) = Primary side input power in W*2/(VT ratio × CT ratio). 2: Primary side input power = Secondary side rated power in W × 1.2 × VT ratio × CT ratio.

VT ratio/CT ratio: By setting the VT and CT ratios, input to the FX is converted to the primary side input value before the VT/CT and displayed.

Low cut power function: A power measurement element is included in which power below a specified value is treated as 0.

- This is used when calculating power as watt hours.
- Setting range: 0.05 to 20.00% of the rated power

Update interval: 1 sec.

Power computation:

With TLOG, SUM, or the report function, you can measure watt hours (active watt hours, regenerated energy, var-hours (LAG: +), var-hours (LEAD: -), volt-

ampere-hours). Measurement accurac

vicasurement accuracy				
Item	Measurement Accuracy (Instantaneous Values)			
Active power (W)	/PWR1:±1.0% of Range, /PWR5:±0.5% of Range			
Voltage (V), current (A)	/PWR1:±1.0% of Range, /PWR5:±0.5% of Range			
Apparent power, reactive power,	Value calculated from the measured value ±1 digi			
power factor				
Frequency	±1.0 Hz			

Log Scale (/LG1)

Function: A logarithmic voltage that has been converted from a physical value is applied to the FX, and then the FX's Log scale (logarithmic scale) is used to display and record the physical value Log input: Logarithmic input (LogType1) Input type: Log linear input: Input that is linear on a logarithmic scale (LogType2) Range: 20 mV, 60 mV, 200 mV, 2 V, 6 V, 20 V, 50 V, and 1 V Any character string up to 6 characters in length Unit symbol: Scalable range: Log input (LogType1) 1.00E-15 to 1.00E+15 (15 decades maximum) Lower limit mantissa range: 1.00 to 9.99. Upper limit mantissa range: 1.00 to 9.99. Scale L < Scale U If the lower limit mantissa is 1.00, the difference between the exponents must be 1 or more If the lower limit mantissa is a value other than 1.00, the difference between the exponents must be 2 or more

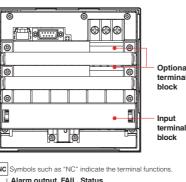
- Log linear input (LogType2)
- Lower limit mantissa range: 1.00 to 9.99. Upper limit mantissa range: N/A (the value is the same as the lower limit mantissa).
- If the lower limit mantissa is 1.00, the value must be between 1.00F-15 and 1.00E+15, the difference between the exponents must be 1 or more, and the
- maximum decades is 15.
- If the lower limit mantissa is a value other than 1.00, the value must be between 1.01E-15 and 9.99E+14, the difference between the exponents must be 1 or more and the maximum decades is 14.

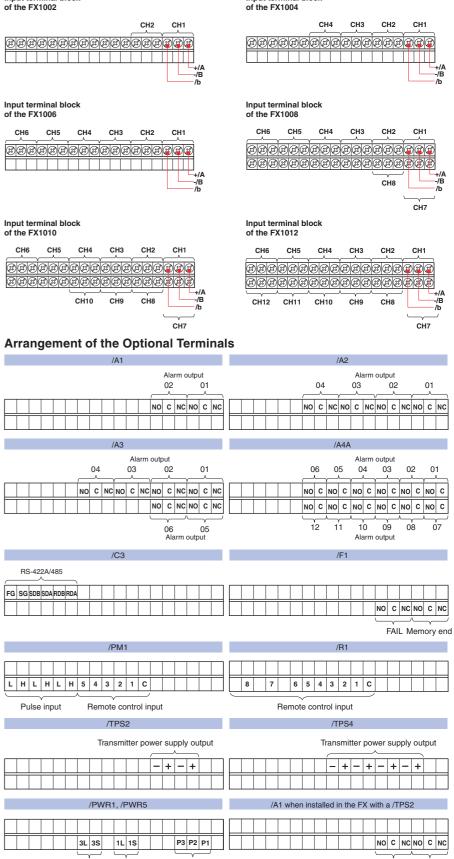
Alarm

- Kind: High limit, low limit, delay high limit, and delay low limit Range 1.00E-16 to 1.00E+16, mantissa: 1.00 to 9.99 Hysteresis: 0% (fixed)
- Color scale band range: 1.00E-16 to 1.00E+16, mantissa: 1.00 to 9.99 The display position lower limit must be less than the display position upper limit
- Number of mantissa display digits: 2 or 3



This is the arrangement of the terminals for models and options. For combinations of models and options, see the chart of models and option codes.





Input terminal block

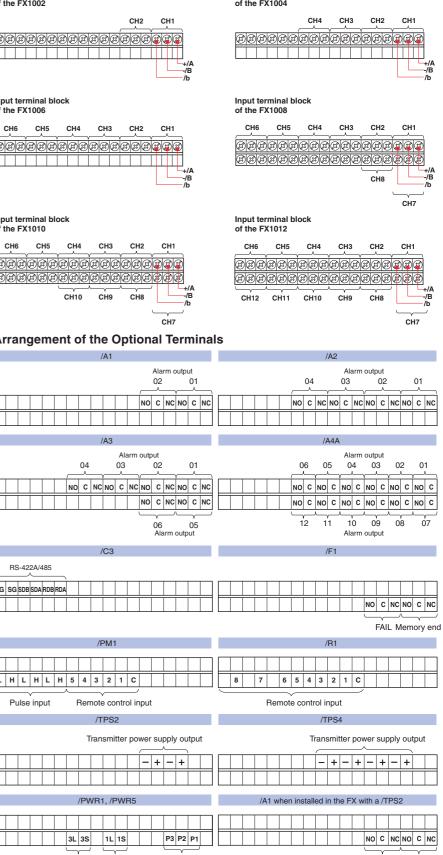
CH6 CH5 CH	4 CI

A terminal that is not used

	RS	5-42	2A/4	185			
		_	_				
FG	SG	SDB	SDA	RDB	RDA		
F							

								/F	P
	-	-			-	-		-	-
L	н	L	н	L	н	5	4	3	





				3L	3S	
		Cur	ren	t in	put	

Pulse input H and L + and ·

block Input termina block NC Symbols such as "NC" indicate the terminal functions Alarm output, FAIL, Status NC : Normally closed C : Common NO : Normally opened

Remote control input

1 to 8 : Remote control terminal numbe :Comr

Transmitter power supply output



Arrangement of the Input Terminals

Input terminal block

Current input Voltage input 02 01 Alarm output

Model and Suffix Codes							
Model code	Su	iffix co	ode	Optional code	Description		
FX1002					2ch, Shortest measurement interval: 125ms		
FX1004					4ch, Shortest measurement interval: 125ms		
FX1006					6ch, Shortest measurement interval: 1s		
FX1008					8ch, Shortest measurement interval: 1s		
FX1010					10ch, Shortest measurement interval: 1s		
FX1012					12ch, Shortest measurement interval: 1s		
External	-0				Without CF/SD card slot and medium (Note)		
storage	-4				With CF card slot and medium (512MB)		
medium slot	-7				With SD card slot and medium (1GB)		
Language		-2			English/German/French, deg F and DST		
Withstanding			-H		1000 VAC(50/60 Hz), 1 min		
between mea input termina		9	-L		400 VAC(50/60 Hz), 1 min		
				/A1	Alarm output 2 points (C-contact)*10		
				/A2	Alarm output 4 points (C-contact) ^{*1}		
				/A3	Alarm output 6 points (C-contact)*1*3		
				/A4A	Alarm output 12 points (A-contact) ^{*1*3}		
				/C2	RS-232 interface ²		
				/C3	RS-422A/485 interface ²		
				/C7	Ethernet interface		
				/F1	FAIL/Status output*3		
				/M1	Mathematical functions (including Report functions)		
				/N2	3 leg isolated RTD ^{*4}		
				/N3F	Extended input type (without Pt1000)		
Options				/P1	24 VDC/AC power supply		
				/R1	Remote control 8 points ¹⁵		
				/TPS2	24VDC transmitter power supply (2 loops) ^{*10}		
				/TPS4	24VDC transmitter power suply (4 loops)'7		
				/USB1	USB interface (1 port)		
				/PM1	Pulse input 3 points, Remote control 5 points (including Mathematical functions) ^{*8}		
				/CC1	Calibration correction function		
				/LG1	Log scale		
				/PWR1	Power monitor (1A range, including Mathmatical functions) ^{*9*10*11}		
				/PWR5	Power monitor (5A range, including Mathmatical functions) ^{*9*10*11}		

Any combination of /A1, /A2, /A3, and /A4A cannot be specified together.

- *2
- *3 *4

- 'IV2 cannot be specified for FX1002 and FX1004.
 If /R1 is specified, /A4A, /TPS2, /TPS4, /PM1, /PWR1 or /PWR5 cannot be specified.
 If /TPS2 is specified, /TPS4, /A2, /A3, /A4A, /F1, /R1, or /PM1 cannot be specified.
 If /TPS4 is specified, /TPS4, /A2, /A3, /A4A, /F1, /R1, or /PM1 cannot be specified.
 If /PM1 is specified, /A4A, /M1, /R1, /TPS2, /TPS4, /PWR1 or /PWR5 cannot be specified.
 If /PW1 or /PWR5 is specified, /A3, /A4A, /F1, /R1, /PM1, or /M1 cannot be specified.
 If /PWR1 or /PWR5 is specified, /A3, /A4A, /F1, /R1, /PM1, or /M1 cannot be specified.
 The three options /TPS2, /PWR1 or /PWR5, and /A1 cannot be specified together.
 If /PWR1 and /PWR5 cannot be specified together. Note: To load data, the FX must be equipped with a communication interface (/C2, /C3, or /C7 option) or the USB interface (/USB1 option).

Standard Accessories

NOTICE

Mounting brackets (2), FX1000 Safety Precautions and Installation Guide Installing the FXA120 DAQSTANDARD FX1000 Mode Transition Diagram Setting Mode / Basic Setting Mode Maps (1), CF card (512MB; On FXs that have a CF card slot (suffix code -4.), SD card (1GB; On FXs that have a SD card slot (suffix code -7.), CF/SD card capacity is subject to change.

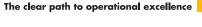
Precaution on purchasing the Log scale (Optional code, /LG1)

To support the nonlinear output of vacuum gauges, the FX must be required with the Log scale (/LG1) and the calibration correction function (/CC1).

> Before operating the product, read the instruction manual thoroughly for proper and safe operation.

vigilantp





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Accessories (Sold Separately)							
Name	Model	Notes					
	X010-250-3	$250 \ \Omega \pm 0.1\%$					
Shunt resistor	X010-100-3	$100 \ \Omega \pm 0.1\%$					
	X010-010-3	$10 \ \Omega \pm 0.1\%$					
CF card adapter	772090	-					
	772093	512 MB					
CF card	772094	1 GB					
	772095	2 GB					
SD card	773001	1 GB					
Mounting brackets	B8730BU	-					
Terminal control	B8730CZ	M3 (spares for I/O terminals)					
Terminal screws	B8730CY	M4 (spares for power terminals)					

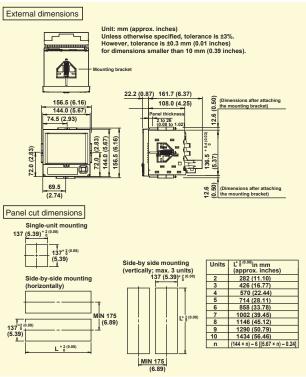
Operating System

Windows Vista, 7, 8, 8,1

Application Software Model code

Description FXA120 DAQSTANDARD for FX1000

External Dimensions/Panel Cut Dimensions



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