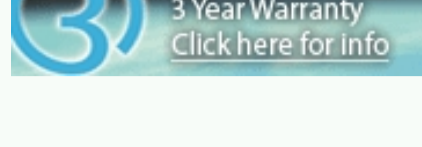


PLC Programmable Controls: FP2 Expansion Units

Automation Control Products

- PLC Controls
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 - FPX
 - FP2**
 - FP Impulse Controller
 - FPWINPRO Software
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Expansion units for FP2 appear below.



I/O Units



Product name	Type	Number of point	Connection method	Specifications	Number
FP2 Input unit	DC input	16 points	Terminal	12 to 24V DC	FP2-X16D2
		32 points	Connector	24V DC	FP2-X32D2
		64 points	Connector	24V DC	FP2-X64D2
FP2 Output unit	Relay output	6 points	Terminal	5 A, 2 points per one common	FP2-YR6
		16 points	Terminal	2 A, 8 points per one common	FP2-Y16R
		16 points	Terminal	0.5 A (12 to 24 V DC), 0.1 A (5 V DC)	FP2-Y16T
	Transistor output NPN	32 points	Connector	0.1A(12 to 24 V DC), 50mA (5V DC)	FP2-Y32T
		64 points	Connector	0.1A(12 to 24 V DC), 50mA (5V DC)	FP2-Y64T
		16 points	Terminal	0.5 A (12 to 24 V DC), 0.1 A (5 V DC)	FP2-Y16P
	Transistor output PNP	32 points	Connector	0.1A(12 to 24 V DC), 50mA (5V DC)	FP2-Y32P
		64 points	Connector	0.1A(12 to 24 V DC), 50mA (5V DC)	FP2-Y64P
		FP2 I/O mixed unit	DC input, Transistor output NPN	Input 32 points, Output 32 points	Connector
Input 24 V DC Output 0.1 A (12 to 24 V DC), 50 mA (5 V DC) with on pulse catch input	FP2-XY64D7T				
DC input, Transistor output PNP	Input 32 points, Output 32 points		Connector	Input 24 V DC Output 0.1 A (12 to 24 V DC), 50 mA (5 V DC)	FP2-XY64D2P
				Input 24 V DC Output 0.1 A (12 to 24 V DC), 50 mA (5 V DC) with on pulse catch input	FP2-XY64D7P

Notes:
 * Pressure welding socket is supplied. A special tool (Part number AXY52000) is needed for connection.
 * Please purchase separately if you are using a terminal or flat cable socket.

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Intelligent Units

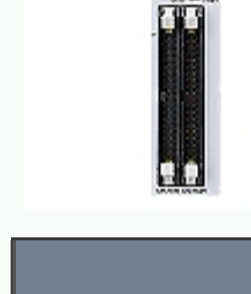
Analog I/O Unit



Product name	Specifications	Number of I/O points	Part Number
FP2 Analog Input unit	Channel isolation multi input Voltage range: 1 to 5V, -10 to +10V, -100 to +100mV Resolution: 1/13017(1 to 50V) to 1/65536(Others) Thermocouple: S, J, K, T, R, N type R.T.D.: Pt100, JPt100, Pt1000	Analog input: 8 ch.	FP2-AD8X
	R.T.D. input R.T.D.: Pt100, JPt100, Pt1000		FP2-RTD
	Voltage/Current input Voltage range: 1 to +5 V, -10 to +10V Current range: 4 to 20 mA, -20 to +20mA Resolution: 1/13107 (1 to 5 V, 4 to 20mA) to 1/65536(Others)		FP2-AD8
FP2 Analog Output unit	Voltage range: -10 to +10 V Current range: 0 to 20 mA Resolution: 1/4096	Analog output: 4 ch.	FP2-DA4

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Positioning control and Calculation units



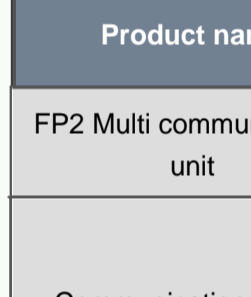
Product name	Specifications			Part Number
	Output type	Number of axes controlled	Speed command	
FP2 Positioning unit Multifunction type note 1)	Transistor	2 axes, independent	1pps to 500kpps	FP2-PP21
		4 axes, independent	FP2-PP41	
	Line driver	2 axes, independent	1pps to 4Mpps	FP2-PP22
		4 axes, independent	FP2-PP42	
FP2 Positioning unit RTEX	2 axes unit		FP2-PN2AN	
	4 axes unit		FP2-PN4AN	
	8 axes unit		FP2-PN8AN	
	Dedicated software toolConfigurator PM (English)			AFPS66510
FP2 High-speed counter unit	8 interrupt inputs 4 -channel high -speed counter Input: 24 V DC Output: 5 to 24 V DC (0.1 A, 12 points/0.8 A, 4 points)	Input: 24 V DC NPN output PNP output	FP2-HSCT FP2-HSCP	
FP2 Pulse I/O unit	8 interrupt inputs 4 -channel high -speed counter 8 comparison outputs 4 pulse output channels 4 PWM output channels Input: 24 V DC Output: 5 to 24 V DC (0.1 A, 12 points/0.8 A, 4 points)	NPN output	FP2-PXYT	
		PNP output	FP2-PXYP	

Notes:
 1) Previous FP2 positioning units AFP2430 (FP2PP2) and AFP2431 (FP2PP4) are not compatible with the multifunction type FP2 positioning unit. Please contact us.
 * Pressure welding socket is supplied. A special tool (part no. AXY52000) is needed for connection. Please purchase separately if you are using a terminal or flat cable socket.
 * Please refer to "FP SIGMA Product Types" for Motor driver I/F terminal II.

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Link/Communication Units

Serial Communication/Network Units



Product name	Specifications	Part Number
FP2 Multi communication unit	Selectable combination of two interfaces from RS232C/RS422/RS485 detachable serial communication block.	FP2-MCU
Communication block	RS232C	FP2-CB232
	RS422	FP2-CB422
	RS485	FP2-CB485

Notes:
 * FP2 Multi Communication Unit cannot be used alone. Use it with FP2 communication block.

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Unit for Serial data controls



Product name	Specifications	Number of channel	Part Number
FP2 Serial data unit	The unit can communicate with RS232C device. The serial input/output is executed by sequence instruction.	2 ch.	FP2-SDU

Notes:
 * For wiring, use the accompanying DSUB connector or a separately sold cable.

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Unit for Display panel and Computer interface

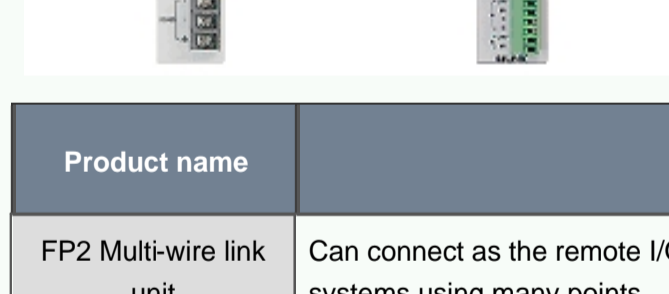


Product name	Specifications	Number of channel	Part Number
FP2 Computer communication unit	The unit can communicate with a computer in 1: 1 communication. RS232Cx2 channels The unit can also be connected with operation display panel.	2 ch.	FP2-CCU

Notes:
 * For wiring, use the accompanying DSUB connector or a separately sold cable.

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Link-related units and software



Product name	Specifications	Part Number
FP2 Multi-wire link unit	Can connect as the remote I/O system MEWNET -F master station. Perfect for remote I/O systems using many points	FP2-MW
FP2 S-Link unit	Direct connection to SUNX Co., Ltd., S-LINK reduced-wiring system CPU unit with 128 points x 1 channel	FP2-SL2
FP2 ET-LAN unit	Ethernet link unit for FP2/FP2SH installed on CPU backplane.	FP2-ET1
Control Configurator ET	ET-LAN unit setting software	AFPS32510

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Backplane

Product name	Specifications	Part Number
FP2 Backplane	5-module type (for basic)	FP2-BP05
	7-module type (for basic and expansion)	FP2-BP07
	9-module type (for basic and expansion)	FP2-BP09
	12-module type (for basic and expansion)	FP2-BP12
	14-module type (for basic and expansion)	FP2-BP14
FP2 Backplane H type.	11-module type (for basic)	FP2-BP11MH
	10-module type (for expansion)	FP2-BP10EH
FP2 Expansion cable	0.6m	FP2-EC
	2m	FP2-EC2

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Power Supply Unit

Product name	Specifications	Part Number
FP2 Power supply unit	Input: 100 to 120 V AC, Output: 2.5 A	FP2-PSA1
	Input: 200 to 240 V AC, Output: 2.5 A	FP2-PSA2
	Input: 100 to 240 V AC, Output: 5 A	FP2-PSA3
	Input: 24 V DC, Output: 5 A	FP2-PSD2

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Optional memories

For FP2

Product name	Functions				Part Number
	Functions	Clock/Calendar	Expansion RAM	ROM socket	
Expansion memory unit	Available	Available	Not available	Not available	FP2-EM1
	Available	Available	Available	Not available	FP2-EM2
	Available	Available	Available	Available	FP2-EM3
	Not available	Not available	Available	Available	FP2-EM6
	Not available	Not available	Not available	Available	FP2-EM7
F-ROM	FLASH-ROM for program copy and ROM operation Equivalent to SST-29EE010-120-4C-PH Enables writing with the programming tool when attached to the CPU unit.			FP2-EM4	
EP-ROM	EP-ROM for program storage and ROM operation Equivalent to M27C1001-12F1 A commercially available ROM writer is required.			FP2-EM5	

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For FP2SH

Product name	Specifications	Part Number	
ROM for FP2SH standard type CPU unit	Expansion memory unit	Socket for fitting ROM to the CPU unit	FP2-EM7
	F-ROM	FLASH-ROM for program copy and ROM operation Equivalent to SST-29EE020-150-4C-PH Enables writing with the programming tool when attached to the CPU unit.	AFP5208
	EP-ROM	EP-ROM for program storage and ROM operation Equivalent to M27C2001-150F1 A commercially available ROM writer is required.	AFP5209
IC memory card (Small PC card) for FP2SH CPU unit with IC memory card interface	F-ROM	Backup unnecessary. Using for program memory Used for readout when using data memory.	AIC50020
	SRAM	Perfect for data memory Can also be used for program backup. Battery backups.	AIC52000

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