








Lineup (FP0, FP0R, FPΣ, and FP-X)


FPΣ	Control units
	<ul style="list-style-type: none"> ● C32 control unit (NPN Transistor output) AFP0R2543H (FPG-C32TH) ● C32 control unit (NPN Transistor output) Left-side expansion type, built-in linear interpolation and circular interpolation functions AFP0R2643H (FPG-C32T2H) ● C32 control unit (NPN Transistor output) With thermistor input AFP0R2543HTM (FPG-C32THTM) ● C32 control unit (NPN Transistor output) Left-side expansion type, built-in linear interpolation and circular interpolation functions, with thermistor input AFP0R2643HTM (FPG-C32T2HTM)
	<ul style="list-style-type: none"> ● C24 control unit (Relay output) Left-side expansion type, with thermistor input AFP0R2423HTM (FPG-C24R2HTM) ● C24 control unit (Relay output) Left-side expansion type AFP0R2423H (FPG-C24R2H)
	<ul style="list-style-type: none"> ● C28 control unit (PNP Transistor output) Left-side expansion type, built-in linear interpolation and circular interpolation functions AFP0R2653H (FPG-C28P2H) ● C28 control unit (PNP Transistor output) Left-side expansion type, built-in linear interpolation and circular interpolation functions, with thermistor input AFP0R2653HTM (FPG-C28P2HTM)

Left-side expansion possible up to 4 units

FP0R	Control units
10 points	Input: 6 points, Relay output: 4 points
	Terminal block type AFP0RC10RS AFP0RC10CRS (with RS232C) AFP0RC10MRS (with RS485)
	Molex connector type AFP0RC10RM AFP0RC10CRM (with RS232C)
14 points	Input: 8 points, Relay output: 6 points
	Terminal block type AFP0RC14RS AFP0RC14CRS (with RS232C) AFP0RC14MRS (with RS485)
	Molex connector type AFP0RC14RM AFP0RC14CRM (with RS232C)






Right-side expansion possible up to 3 units

Right-side expansion possible up to 3 units


FPΣ	Expansion units
	<ul style="list-style-type: none"> ● 64 points expansion I/O unit AFP0G3467 (FPG-XY64D2T) (NPN Transistor output) AFP0G3567 (FPG-XY64D2P) (PNP Transistor output) ● Positioning unit 1 axis, Transistor output AFP0G430 (FPG-PP11) 1 axis, Line driver output AFP0G432 (FPG-PP12) 2 axes, Transistor output AFP0G431 (FPG-PP21) 2 axes, Line driver output AFP0G433 (FPG-PP22) ● Positioning unit RTEX 2-axis unit AFP0G43610 (FPG-PN2AN) 4-axis unit AFP0G43620 (FPG-PN4AN) 8-axis unit AFP0G43630 (FPG-PN8AN) ● S-LINK unit AFP0G780 (FPG-SL) ● CC-Link slave unit AFP0G7943 (FPG-CCLS)

Positioning unit

1 axis, Transistor output
AFP0G430 (FPG-PP11)

FP0R	Expansion units
8 points	Input: 8 points
	MIL connector type AFP0RE8X
	Terminal block type AFP0RE8RS
	Molex connector type AFP0RE8RM
	Relay output: 8 points
	Terminal block type AFP0RE8YRS
	Transistor output: 8 points
	MIL connector type AFP0RE8YT AFP0RE8YP

Communication cassettes










A white, rectangular communication cassette with a grey base and a small label on the front.

1 channel, RS232C
AFP801
(FPG-COM1)

- 1 channel, RS232C
AFP801
(FPG-COM1)
- 2 channels, RS232C
AFP802
(FPG-COM2)
- 1 channel, RS485 (insulated)
AFP803
(FPG-COM3)
- 1 channel, RS232C
1 channel, RS485 (insulated)
AFP806
(FPG-COM4)

1 channel, RS232C
AFP0G801 (FPG-COM1)

FP0R		Intelligent units			
Analog input unit Input: 4 channels		Analog input unit Input: 8 channels		Analog output unit Output: 4 channels	
Terminal block type	NEW	Terminal block type	NEW	Terminal block type	NEW
					
AFP0RAD4		AFP0RAD8		AFP0RDA4	
Analog I/O unit Input: 2 channels, Output: 1 channel		Analog I/O unit Input: 4 channels, Output: 2 channels		Thermocouple units	
Terminal block type	NEW	Terminal block type	NEW	<div>4-ch</div> <div>8-ch</div>	
					
AFP0RA21		AFP0RA42		AFP0420 (FP0-TC4) AFP0421 (FP0-TC8)	

FP memory loader	Others
	Data clear type AFP0B670 Data hold type AFP0B671

*FP memory loader will be discontinued at the end of September, 2019.

16 points Input: 8 points, Transistor output: 8 points

MIL connector type



AFP0RC16T
AFP0RC16P
AFP0RC16CT (with RS232C)
AFP0RC16CP (with RS232C)
AFP0RC16MT (with RS485)
AFP0RC16MP (with RS485)

32 points Input: 16 points, Transistor output: 16 points

MIL connector type



T type



F type

AFP0RC32T
AFP0RC32P
AFP0RC32CT (with RS232C)
AFP0RC32CP (with RS232C)
AFP0RC32MT (with RS485)
AFP0RC32MP (with RS485)
AFP0RT32CT (with RS232C)
AFP0RT32CP (with RS232C)
AFP0RT32MT (with RS485)
AFP0RT32MP (with RS485)
AFP0RF32CT (with RS232C)
AFP0RF32CP (with RS232C)
AFP0RF32MT (with RS485)
AFP0RF32MP (with RS485)

 Expansion possible
up to 3 units

Expansion FP0 adapter



AFPX-EFP0

16 points

Input: 16 points

MIL connector type



AFP0RE16X

Transistor output: 16 points

MIL connector type


 AFP0RE16YT
AFP0RE16YP

Input: 8 points, Transistor output: 8 points

MIL connector type


 AFP0RE16T
AFP0RE16P

Input: 8 points, Relay output: 8 points

Terminal block type



AFP0RE16RS

Molex connector type



AFP0RE16RM

32 points

 Input: 16 points,
Transistor output: 16 points

MIL connector type


 AFP0RE32T
AFP0RE32P

Link and communication units

I/O link unit


 AFP0732
(FP0-IOL)

CC-Link slave unit


 AFP07943
(FP0-CCLS)

FP WEBSERVER 2 unit


 AFP0611
(FP-WEB2)

 *AFP0732 will be discontinued
at the end of September, 2019.

KS1 Signal converter

C-NET adapter S2 type

 Adapter to link with a host
computer
With a 30 cm 1.18 in
dedicated cable.
No power supply required.


AFP15402



AKS1202

FP-X

Control units

Relay output

DC power supply

AFPX-C14RD

 8 points input of 24 V DC
6 points relay output of 2 A

 Program capacity:
16 k steps
Potentiometer (volume)
input: 2 points

AC power supply

AFPX-C14R

 8 points input of 24 V DC
6 points relay output of 2 A

Transistor output

DC power supply

AFPX-C14TD (NPN)

AFPX-C14PD (PNP)

 8 points input of 24 V DC
0.5 A / 5 to 24 V DC
Transistor output: 6 points

AC power supply

AFPX-C14T (NPN)

AFPX-C14P (PNP)

 8 points input of 24 V DC
0.5 A / 5 to 24 V DC
Transistor output: 6 points

DC power supply

AFPX-C30RD

 16 points input of 24 V DC
14 points relay output of 2 A

 Program capacity:
32 k steps
Potentiometer (volume)
input: 2 points
Equipped with a USB
communication port

AC power supply

AFPX-C30R

 16 points input of 24 V DC
14 points relay output of 2 A

DC power supply

AFPX-C30TD (NPN)

AFPX-C30PD (PNP)

 16 points input of 24 V DC
0.5 A / 5 to 24 V DC
Transistor output: 14 points

AC power supply

AFPX-C30T (NPN)

AFPX-C30P (PNP)

 16 points input of 24 V DC
0.5 A / 5 to 24 V DC
Transistor output: 14 points

DC power supply

AFPX-C60RD

 32 points input of 24 V DC
28 points relay output of 2 A

 Program capacity:
32 k steps
Potentiometer (volume)
input: 4 points
Equipped with a USB
communication port

AC power supply

AFPX-C60R

 32 points input of 24 V DC
28 points relay output of 2 A

DC power supply

AFPX-C60TD (NPN)

AFPX-C60PD (PNP)

 32 points input of 24 V DC
0.5 A / 5 to 24 V DC
Transistor output: 28 points

AC power supply

AFPX-C60T (NPN)

AFPX-C60P (PNP)

 32 points input of 24 V DC
0.5 A / 5 to 24 V DC
Transistor output: 28 points

FP-X

Expansion units

Input

AFPX-E16X

16 points input of 24 V DC


 Remarks: Two or more
units can't be connected
serially because it can't
supply the power to other
units.

Relay output

Output

AFPX-E14YR

14 points relay output of 2 A

DC power supply

AFPX-E16R

 8 points input of 24 V DC
8 points relay output of 2 A

Transistor output

DC power supply

AFPX-E16T (NPN)

AFPX-E16P (PNP)

 8 points input of 24 V DC
0.5 A / 5 to 24 V DC (NPN)
0.5 A / 24 V DC (PNP)
Transistor output: 8 points

DC power supply

AFPX-E30RD

 16 points input of 24 V DC
14 points relay output of 2 A

 Remarks: Possible to
connect up to 8 units
including E16 and
Expansion FP0 adapter
(AFPX-EFP0).

AC power supply

AFPX-E30R

 16 points input of 24 V DC
14 points relay output of 2 A

DC power supply

AFPX-E30TD (NPN)

AFPX-E30PD (PNP)

 16 points input of 24 V DC
0.5 A / 5 to 24 V DC (NPN)
0.5 A / 24 V DC (PNP)
Transistor output: 14 points

AC power supply

AFPX-E30T (NPN)

AFPX-E30P (PNP)

 16 points input of 24 V DC
0.5 A / 5 to 24 V DC (NPN)
0.5 A / 24 V DC (PNP)
Transistor output: 14 points

FP-X

Add-on cassettes

Application cassettes

AFPX-IN4T3 I/O

AFPX-IN8 Input

AFPX-TR8 Output

AFPX-TR6P Output

AFPX-PLS* Pulse I/O

AFPX-AD2 Analog input

AFPX-A21 Analog I/O

AFPX-DA2 Analog output, 2 channels

AFPX-TC2 Thermocouple input

AFPX-RTD2 R.T.D. input

AFPX-MRTC Master memory cassette


Communication cassettes

AFPX-COM1 RS232C, 1 channel

AFPX-COM2 RS232C, 2 channels

AFPX-COM3 RS485 (insulated) /
RS422 selectable, 1 channel

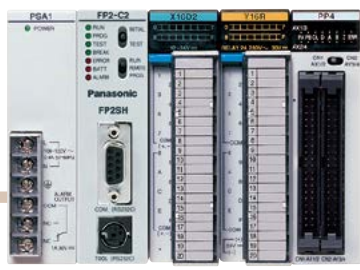
AFPX-COM4 RS485 (insulated), 1 channel
and RS232C, 1 channel


AFPX-COM5 Ethernet, 1 channel +
RS232C, 1 channel

AFPX-COM6 RS485 (insulated), 2 channels


* Cannot be used with a transistor output type control unit.

Lineup (FP2SH)







100 V AC,
2.5 A type
AFP2631
(FP2-PSA1)



200 V AC,
2.5 A type
AFP2632
(FP2-PSA2)



100 to 240 V AC,
5 A type
AFP2633
(FP2-PSA3)




24 V DC,
5 A type
AFP2634
(FP2-PSD2)


FP2SH

Conventional type and H type backplanes


(For use with both master and expansion backplanes. Only the 5-module type can not be used with expansion backplane.)




5-module type
AFP25005 (FP2-BP05)




H type master backplanes
(11 modules): 8 slots
AFP25011MH (FP2-BP11MH)




7-module type
AFP25007 (FP2-BP07)




H type expansion backplanes
(10 modules): 8 slots
AFP25010EH (FP2-BP10EH)



9-module type
AFP25009 (FP2-BP09)



12-module type
AFP25012 (FP2-BP12)




14-module type
AFP25014 (FP2-BP14)


■Units that occupy two modules

There is a two-module type in the power supply and CPU units.


Type	Product No.
Power supply unit, 5 A type	FP2-PSA3
	FP2-PSD2



Expansion cable
(60 cm 2.0 ft)
AFP2510
(FP2-EC)




Expansion cable
(2 m 6.6 ft)
AFP2512
(FP2-EC2)




Dummy unit
AFP2300
(FP2-DM)

FP2SH


CPU units




32 k steps
Standard type
AFP2221
(FP2-C2L)



60 k steps
Standard type
AFP2231
(FP2-C2)



60 k steps
For small PC card
AFP2235
(FP2-C2P)



120 k steps
For small PC card
AFP2255
(FP2-C3P)

Unit combinations

- Each unit is counted in the number of modules occupied. Most of the units occupy one module each. Some units occupy two modules each.
 - Each unit is mounted on a backplane chosen depending on the total number of modules occupied by the all units used. The power supply unit and CPU unit must be mounted on the CPU backplane.
 - Only one backplane other than the 5-module type can be added by using an expansion cable. Also, the 5-module type can not be used with expansion backplane. A power supply unit must be mounted on the expansion backplane.
 - If the backplane is of the H type, up to three backplanes can be added.
 - Most of the units can be used in any combination; however, some combinations are subject to constraints due to the unit type, current consumption, and other factors besides the above requirements.
- Please contact us for details.

FP2SH

I/O units



16 points DC input
AFP23023 (FP2-X16D2)
 16 points NPN transistor output
AFP23403 (FP2-Y16T)
 16 points PNP transistor output
AFP23503 (FP2-Y16P)
 6 points Relay output
AFP23101 (FP2-Y6R)
 16 points Relay output
AFP23103 (FP2-Y16R)



32 points DC input
AFP23064 (FP2-X32D2)
 32 points NPN transistor output
AFP23404 (FP2-Y32T)
 32 points PNP transistor output
AFP23504 (FP2-Y32P)



64 points DC input
AFP23067 (FP2-X64D2)
 64 points NPN transistor output
AFP23407 (FP2-Y64T)
 64 points PNP transistor output
AFP23507 (FP2-Y64P)
 32 points input / 32 points NPN output mixed
AFP23467 (FP2-XY64D2T)
AFP23477 (FP2-XY64D7T)
 32 points input / 32 points PNP output mixed
AFP23567 (FP2-XY64D2P)
AFP23577 (FP2-XY64D7P)

Analog I/O units



Voltage / Current input
AFP2400L
 (FP2-AD8VI)



Multiple analog input
AFP2401
 (FP2-AD8X)



R.T.D. input
AFP2402
 (FP2-RTD)



Analog output
AFP2410
 (FP2-DA4)

Positioning units RTEX



(2 axes) **AFP243610**
 (FP2-PN2AN)

(4 axes) **AFP243620**
 (FP2-PN4AN)

(8 axes) **AFP243630**
 (FP2-PN8AN)

Positioning units



AFP2432
 (FP2-PP21)

AFP2434
 (FP2-PP22)

AFP2433
 (FP2-PP41)

AFP2435
 (FP2-PP42)

FP2SH

Optional memories



Expansion memory unit
AFP2208



IC memory card (2 MB)
AFP2209

FP memory loader



Data clear type
AFP8670
 Data hold type
AFP8671

*FP memory loader will be discontinued
 at the end of September, 2019.

 Positioning units
 interpolation type


(2 axes) **AFP243710**
 (FP2-PP2T)

AFP243711
 (FP2-PP2L)

(4 axes) **AFP243720**
 (FP2-PP4T)

AFP243721
 (FP2-PP4L)

Pulse I/O units



High-speed counter
AFP2441 **AFP2451**
 (FP2-HSCT) (FP2-HSCP)



Pulse I/O
AFP2442 **AFP2452**
 (FP2-PXYT) (FP2-PXYP)

 Multi-communication
 unit


Multi-communication
AFP2465 (FP2-MCU)
 * The communication blocks are
 available separately.

Link-related units



Multi-wire link
AFP2720 (FP2-MW)



Remote I/O slave unit
AFP2745 (FP2-RMS)

Link-related units



VE2-LINK
AFP279601 (FP2-VE2)



ET-LAN2
AFP27901 (FP2-ET2)



S-LINK
AFP2780 (FP2-SL2)



S-LINK V
SL-VFP2

FP2SH

 AC servomotor
 MINAS Series


* Panasonic Corporation
 Motor business unit

FP2SH

 Motor driver I/F
 terminal II


AFP8503

1-axis type



AFP8504

2-axis type

Part Number List

FP-e

*The FP-e will be discontinued at the end of September, 2019.

■Control units

Product name	Specifications	Calendar timer	Thermocouple input	Communication port	Product No.	Part No.
FP-e Control Unit	RS232C Basic type	Not available	Not available	RS232C	AFPE224300	AFPE224300
	RS232C Calendar timer type	Available	Not available	RS232C	AFPE224305	AFPE224305
	RS232C Thermocouple input type	Available	Available	RS232C	AFPE214325	AFPE214325
	RS485 Basic type	Not available	Not available	RS485	AFPE224302	AFPE224302
	RS485 Thermocouple input type	Not available	Available	RS485	AFPE214322	AFPE214322

■ Options		Product name	Part No.	Product name	Part No.
		Backup battery	AFPG804	Protective cover	AQM4803
		Rubber gasket	ATC18002	Terminal screwdriver	AFP0806
		Mounting frame	ATA4811	Terminal socket set (4 terminal blocks)	AFPE804
		Panel cover (Black) 20 pcs	AFPE803		

FP0R

Control units

Product name	Built-in memory (Program capacity)	Specifications						Part No.
		Number of I/O points	Power supply voltage	Input	Output	Connection type		
FP0R-C10 Control Unit	Flash EEPROM (16 k steps)	10	Input: 6 Output: 4	24 V DC	24 V DC Sink/Source (± common)	Relay: 2 A	Terminal block Molex connector	AFP0RC10RS AFP0RC10RM
FP0R-C10 Control Unit with RS232C port	Flash EEPROM (16 k steps)	10	Input: 6 Output: 4	24 V DC	24 V DC Sink/Source (± common)	Relay: 2 A	Terminal block Molex connector	AFP0RC10CRS AFP0RC10CRM
FP0R-C10 Control Unit with RS485 port	Flash EEPROM (16 k steps)	10	Input: 6 Output: 4	24 V DC	24 V DC Sink/Source (± common)	Relay: 2 A	Terminal block	AFP0RC10MRS
FP0R-C14 Control Unit	Flash EEPROM (16 k steps)	14	Input: 8 Output: 6	24 V DC	24 V DC Sink/Source (± common)	Relay: 2 A	Terminal block Molex connector	AFP0RC14RS AFP0RC14RM
FP0R-C14 Control Unit with RS232C port	Flash EEPROM (16 k steps)	14	Input: 8 Output: 6	24 V DC	24 V DC Sink/Source (± common)	Relay: 2 A	Terminal block Molex connector	AFP0RC14CRS AFP0RC14CRM
FP0R-C14 Control Unit with RS485 port	Flash EEPROM (16 k steps)	14	Input: 8 Output: 6	24 V DC	24 V DC Sink/Source (± common)	Relay: 2 A	Terminal block	AFP0RC14MRS
FP0R-C16 Control Unit	Flash EEPROM (16 k steps)	16	Input: 8 Output: 8	24 V DC	24 V DC Sink/Source (± common)	Transistor NPN: 0.2 A Transistor PNP: 0.2 A	MIL connector	AFP0RC16T AFP0RC16P
FP0R-C16 Control Unit with RS232C port	Flash EEPROM (16 k steps)	16	Input: 8 Output: 8	24 V DC	24 V DC Sink/Source (± common)	Transistor NPN: 0.2 A Transistor PNP: 0.2 A	MIL connector	AFP0RC16CT AFP0RC16CP
FP0R-C16 Control Unit with RS485 port	Flash EEPROM (16 k steps)	16	Input: 8 Output: 8	24 V DC	24 V DC Sink/Source (± common)	Transistor NPN: 0.2 A Transistor PNP: 0.2 A	MIL connector	AFP0RC16MT AFP0RC16MP
FP0R-C32 Control Unit	Flash EEPROM (32 k steps)	32	Input: 16 Output: 16	24 V DC	24 V DC Sink/Source (± common)	Transistor NPN: 0.2 A Transistor PNP: 0.2 A	MIL connector	AFP0RC32T AFP0RC32P
FP0R-C32 Control Unit with RS232C port	Flash EEPROM (32 k steps)	32	Input: 16 Output: 16	24 V DC	24 V DC Sink/Source (± common)	Transistor NPN: 0.2 A Transistor PNP: 0.2 A	MIL connector	AFP0RC32CT AFP0RC32CP
FP0R-C32 Control Unit with RS485 port	Flash EEPROM (32 k steps)	32	Input: 16 Output: 16	24 V DC	24 V DC Sink/Source (± common)	Transistor NPN: 0.2 A Transistor PNP: 0.2 A	MIL connector	AFP0RC32MT AFP0RC32MP
FP0R-T32 Control Unit with RS232C port and Real-time clock function	Flash EEPROM (32 k steps)	32	Input: 16 Output: 16	24 V DC	24 V DC Sink/Source (± common)	Transistor NPN: 0.2 A Transistor PNP: 0.2 A	MIL connector	AFP0RT32CT AFP0RT32CP
FP0R-T32 Control Unit with RS485 port and Real-time clock function	Flash EEPROM (32 k steps)	32	Input: 16 Output: 16	24 V DC	24 V DC Sink/Source (± common)	Transistor NPN: 0.2 A Transistor PNP: 0.2 A	MIL connector	AFP0RT32MT AFP0RT32MP
FP0R-F32 Control Unit with RS232C port and Battery-less automatic all data backup function	Flash EEPROM (32 k steps)	32	Input: 16 Output: 16	24 V DC	24 V DC Sink/Source (± common)	Transistor NPN: 0.2 A Transistor PNP: 0.2 A	MIL connector	AFP0RF32CT AFP0RF32CP
FP0R-F32 Control Unit with RS485 port and Battery-less automatic all data backup function	Flash EEPROM (32 k steps)	32	Input: 16 Output: 16	24 V DC	24 V DC Sink/Source (± common)	Transistor NPN: 0.2 A Transistor PNP: 0.2 A	MIL connector	AFP0RF32MT AFP0RF32MP

Note: A power cable (Part number: AFPG805) is supplied with the control units.

FP0									
■ Control units									

FPΣ

■ Control units

Product name	Built-in memory (Program capacity)	Specifications	Product No.	Part No.
FPΣ C32 Control Unit	Flash EEPROM (32 k steps)	Input 16 points DC, Transistor output (NPN) 16 points I/O control points when expanded: 128 points max.	FPG-C32TH	AFPG2543H
FPΣ C32 Left-side Expansion Type Control Unit	Flash EEPROM (32 k steps)	Input 16 points DC, Transistor output (NPN) 16 points I/O control points when expanded: 384 points max. Built-in linear interpolation and circular interpolation functions	FPG-C32T2H	AFPG2643H
FPΣ C24 Left-side Expansion Type Control Unit	Flash EEPROM (32 k steps)	Input 16 points DC, Relay output 8 points I/O control points when expanded: 376 points max. (transistor output)	FPG-C24R2H	AFPG2423H
FPΣ C28 Left-side Expansion Type Control Unit (PNP)	Flash EEPROM (32 k steps)	Input 16 points DC, Transistor output (PNP) 12 points I/O control points when expanded: 380 points max. Built-in linear interpolation and circular interpolation functions	FPG-C28P2H	AFPG2653H
FPΣ C32 Control Unit with Thermistor input	Flash EEPROM (32 k steps)	Input 16 points DC, Transistor output (NPN) 16 points I/O control points when expanded: 128 points max.	FPG-C32THTM	AFPG2543HTM
FPΣ C32 Left-side Expansion Type Control Unit with Thermistor input	Flash EEPROM (32 k steps)	Input 16 points DC, Transistor output (NPN) 16 points I/O control points when expanded: 384 points max. Built-in linear interpolation and circular interpolation functions	FPG-C32T2HTM	AFPG2643HTM
FPΣ C24 Left-side Expansion Type Control Unit with Thermistor input	Flash EEPROM (32 k steps)	Input 16 points DC, Relay output 8 points I/O control points when expanded: 376 points max. (transistor output)	FPG-C24R2HTM	AFPG2423HTM
FPΣ C28 Left-side Expansion Type Control Unit (PNP) with Thermistor input	Flash EEPROM (32 k steps)	Input 16 points DC, Transistor output (PNP) 12 points I/O control points when expanded: 380 points max. Built-in linear interpolation and circular interpolation functions	FPG-C28P2HTM	AFPG2653HTM

* Thermistors with a resistance from 200 Ω to 75 k Ω can be used.

■ Expansion I/O units for FPΣ and FP0R (right-side expansion types)

Product name	Specifications	Part No.
FP0R-E8 Expansion Unit	Input 8 points DC, MIL connector type	AFP0RE8X
	Input 4 points DC, Relay output 4 points, Terminal block type	AFP0RE8RS
	Input 4 points DC, Relay output 4 points, Connector type	AFP0RE8RM
	Relay output 8 points, Terminal block type	AFP0RE8YRS
	Transistor output (NPN) 8 points, MIL connector type	AFP0RE8YT
	Transistor output (PNP) 8 points, MIL connector type	AFP0RE8YP
FP0R-E16 Expansion Unit	Input 16 points DC, MIL connector type	AFP0RE16X
	Input 8 points DC, Relay output 8 points, Terminal block type	AFP0RE16RS
	Input 8 points DC, Relay output 8 points, Connector type	AFP0RE16RM
	Input 8 points DC, Transistor output (NPN) 8 points, MIL connector type	AFP0RE16T
	Input 8 points DC, Transistor output (PNP) 8 points, MIL connector type	AFP0RE16P
	Transistor output (NPN) 16 points, MIL connector type	AFP0RE16YT
FP0R-E32 Expansion Unit	Transistor output (PNP) 16 points, MIL connector type	AFP0RE16YP
	Input 16 points DC, Transistor output (NPN) 16 points, MIL connector type	AFP0RE32T
	Input 16 points DC, Transistor output (PNP) 16 points, MIL connector type	AFP0RE32P

■ Intelligent units for FPΣ and FP0R (right-side expansion types)

Product name	Specifications	Product No.	Part No.
FP0R Analog Input Unit	<Input specifications> Number or channels: 4 channels Voltage -10 to +10 V, -5 to +5 V, 0 to +10 V, 0 to +5 V (Resolution: 1/16,000) Current 0 to 20 mA (Resolution: 1/16,000)	—	NEW AFP0RAD4
FP0R Analog Input Unit	<Input specifications> Number or channels: 8 channels Voltage -10 to +10 V, -5 to +5 V, 0 to +10 V, 0 to +5 V (Resolution: 1/16,000) Current 0 to 20 mA (Resolution: 1/16,000)	—	NEW AFP0RAD8
FP0R Analog I/O Unit	<Input specifications> Number or channels: 2 channels Voltage -10 to +10 V, -5 to +5 V, 0 to +10 V, 0 to +5 V (Resolution: 1/16,000) Current 0 to 20 mA (Resolution: 1/16,000)	—	NEW AFP0RA21
	<Output specifications> Number or channels: 1 channel Voltage -10 to +10 V, -5 to +5 V, 0 to +10 V, 0 to +5 V (Resolution: 1/16,000) Current 0 to 20 mA, 4 to 20 mA (Resolution: 1/16,000)		
FP0R Analog I/O Unit	<Input specifications> Number or channels: 4 channels Voltage -10 to +10 V, -5 to +5 V, 0 to +10 V, 0 to +5 V (Resolution: 1/16,000) Current 0 to 20 mA (Resolution: 1/16,000)	—	NEW AFP0RA42
	<Output specifications> Number or channels: 2 channels Voltage -10 to +10 V, -5 to +5 V, 0 to +10 V, 0 to +5 V (Resolution: 1/16,000) Current 0 to 20 mA, 4 to 20 mA (Resolution: 1/16,000)		
FP0R Analog Output Unit	<Output specifications> Number or channels: 4 channels Voltage -10 to +10 V, -5 to +5 V, 0 to +10 V, 0 to +5 V (Resolution: 1/16,000) Current 0 to 20 mA, 4 to 20 mA (Resolution: 1/16,000)	—	NEW AFP0RDA4
FP0 Thermocouple Unit	K, J, T, R thermocouple, Resolution: 0.1 °C 32.18 °F, 4-ch	FP0-TC4	AFP0420
	K, J, T, R thermocouple, Resolution: 0.1 °C 32.18 °F, 8-ch	FP0-TC8	AFP0421
FP WEB-SERVER2	Unit for connecting FP series RS232C interface and Ethernet Web-server function and E-mail sending function, Compatible with 100BASE-TX (100 Mbps).	FP0-WEB2	AFP0611
Control FP WEB Configurator Tool 2	Setting tool software for FP Web-server 2	Japanese version	AFPS30120
		English version	AFPS30520
FP0 I/O Link Unit	This is a link unit designed to connect FP0 as a station to MEWNET-F (our remote I/O system).	FP0-IOL	AFP0732
FP0 CC-link Slave Unit (Note)	Unit to connect to FP0 CC-link	FP0-CCLS	AFP07943
KS1 Signal Converter	RS232C/RS485 data can be easily monitored by LAN.	—	AKS1202

Note: It will be discontinued at the end of September, 2019.

■ Expansion units for FPΣ (left-side expansion type)

Product name	Specifications	Product No.	Part No.
FPΣ 64 points Expansion I/O Unit	Input 32 points DC, Transistor output (NPN) 32 points, Maximum possible expansion is with a total of 4 units to the left side of the FPΣ control units	FPG-XY64D2T	AFPG3467
	Input 32 points DC, Transistor output (PNP) 32 points, Maximum possible expansion is with a total of 4 units to the left side of the FPΣ control units	FPG-XY64D2P	AFPG3567

FPΣ

Intelligent units for FPΣ (left-side expansion types)

Product name	Specifications	Product No.	Part No.
FPΣ Positioning Unit	Pulse output type	1 axis, Transistor output	FPG-PP11 AFPG430
FPΣ Positioning Unit	Pulse output type	1 axis, Line driver output	FPG-PP12 AFPG432
FPΣ Positioning Unit	Pulse output type	2 axes, Transistor output	FPG-PP21 AFPG431
FPΣ Positioning Unit	Pulse output type	2 axes, Line driver output	FPG-PP22 AFPG433
FPΣ Positioning Unit RTEX	Network type	2-axis type	FPG-PN2AN AFPG43610
FPΣ Positioning Unit RTEX	Network type	4-axis type	FPG-PN4AN AFPG43620
FPΣ Positioning Unit RTEX	Network type	8-axis type	FPG-PN8AN AFPG43630
Control Configurator PM	Dedicated tool software for positioning unit RTEX, Japanese version		– AFPS66110
	Dedicated tool software for positioning unit RTEX, English version		– AFPS66510
FPΣ CC-Link Slave Unit	Unit to connect to CC-Link		FPG-CCLS AFPG7943
FPΣ S-LINK Unit	Unit to connect to SUNX S-LINK I/O devices		FPG-SL AFPG780

Communication cassettes

Product name	Specifications	Product No.	Part No.
FPΣ Communication Cassette 1 channel, RS232C type	Cassette for control unit installation. Enables communications with devices with RS232C interface.	FPG-COM1	AFPG801
FPΣ Communication Cassette 2 channels, RS232C type	Cassette for control unit installation. Enables communications with devices with RS232C interface.	FPG-COM2	AFPG802
FPΣ Communication Cassette 1 channel, RS485 type	Cassette for control unit installation. PLC linking between FPΣs or communication with devices with RS485 interface possible.	FPG-COM3	AFPG803
FPΣ Communication Cassette 1 channel, RS232C and 1 channel, RS485 type	Cassette for control unit installation. Enables communications with devices with RS232C interface and RS485 interface.	FPG-COM4	AFPG806

Options for FP0 and FPΣ

C-NET

Product name	Specifications	Part No.
For connection with a PLC (with cable) C-NET Adapter S2 type	Connects FP0 to C-NET. Connects the FP0 programmer with the supplied cable. Requires no power supply	AFP15402

Options and maintenance parts

Product name	Specifications	Part No.
Backup battery for FPΣ	Battery for full-time back up of operation memory and clock/calendar function	AFPG804
FPΣ High capacity battery holder	Battery does not come with battery holder. Purchase a commercially available CR123A battery.	AFPG807
FP0 Slim 30 type mounting plate	Plastic plate to mount FPΣ units and FPΣ expansion units on a panel (including 10 pieces)	AFP0811
FP0 Slim type mounting plate	Plastic plate to mount FP0 expansion units on a panel (including 10 pieces)	AFP0803
Power cable for FP0	Included with FP0 unit. Maintenance part. 1 m 3.3 ft length (including 1 piece)	AFP0581
Power cable for FPΣ	Included with control unit. Maintenance part. 1 m 3.3 ft length	AFPG805
FP memory loader (Note)	Data clear type	AFP8670
	Data hold type	AFP8671
Terminal screwdriver	Relay output type Necessary when wiring terminals block (Phoenix).	AFP0806
Multi-wire connector pressure contact tool	Necessary when wiring transistor output type connectors.	AXY52000FP
I/O cable for relay output molex type	Loose-wiring cable (9 leads) AWG20, with Molex socket attached at one end, 0.5 mm ² , 1 set: 2 cables (blue & white).	Length: 1 m 3.3 ft AFP0551
		Length: 3 m 9.8 ft AFP0553
I/O cable for transistor output type	Wire-pressed terminal cable (10 leads) AWG22, 0.3 mm ² with connectors attached at one end, 1 set: 2 cables (blue & white).	Length: 1 m 3.3 ft AFP0521
		Length: 3 m 9.8 ft AFP0523
Connector set for flat cable (10 leads)	If you are using flat cable connector, request the part specified below for a connector with an asymmetrical design to prevent mistaken polarity. (including 4 pieces)	
Terminal socket	Attaches to relay output and terminal block type. Maintenance part. (2 sockets per pack)	AFP0802
Molex socket	Attaches to relay output and Molex connector types. Maintenance part. (2 sockets per pack)	AFP0801
Wire-press socket (10 leads)	Attaches to transistor output type. Maintenance part. (2 sockets per pack)	AFP0807

Note: FP memory loader will be discontinued at the end of September, 2019.

Motor driver I/F terminal II

Product name	Specifications	Part No.
Motor driver I/F terminal II 1-axis type	I/F terminal for connecting the MINAS series and FPΣ positioning unit / FP2 multi function type positioning unit.	AFP8503
Motor driver I/F terminal II 2-axis type		AFP8504
Exclusive cable for MINAS A4 / A5 series, 1 m 3.281 ft	Cable for connecting the MINAS A4 / A5 series and motor driver I/F terminal II.	AFP85151
Exclusive cable for MINAS A4 / A5 series, 2 m 6.562 ft		AFP85152
Connection cable for positioning unit, 0.5 m 1.640 ft	Cable for connecting the FPΣ positioning unit / FP2 multi function type positioning unit and motor driver I/F terminal II.	AFP85100
Connection cable for positioning unit, 1 m 3.281 ft		AFP85101

FP-X

■ Control units

Product name		Power supply	Specifications	Program capacity	Potentiometer	USB port	Part No.
Relay output	FP-X C14R	100 to 240 V AC	8-point input of 24 V DC, 6-point relay output of 2 A	16 k steps	2-point	Not available	AFPX-C14R
	FP-X C14RD	24 V DC	8-point input of 24 V DC, 6-point relay output of 2 A	16 k steps	2-point	Not available	AFPX-C14RD
	FP-X C30R	100 to 240 V AC	16-point input of 24 V DC, 14-point relay output of 2 A	32 k steps	2-point	Available	AFPX-C30R
	FP-X C30RD	24 V DC	16-point input of 24 V DC, 14-point relay output of 2 A	32 k steps	2-point	Available	AFPX-C30RD
	FP-X C60R	100 to 240 V AC	32-point input of 24 V DC, 28-point relay output of 2 A	32 k steps	4-point	Available	AFPX-C60R
	FP-X C60RD	24 V DC	32-point input of 24 V DC, 28-point relay output of 2 A	32 k steps	4-point	Available	AFPX-C60RD
Transistor output	FP-X C14T	100 to 240 V AC	8-point input of 24 V DC, 0.5 A / 5 to 24 V DC, 6-point output of transistor (NPN)	16 k steps	2-point	Not available	AFPX-C14T
	FP-X C14TD	24 V DC	8-point input of 24 V DC, 0.5 A / 5 to 24 V DC, 6-point output of transistor (NPN)	16 k steps	2-point	Not available	AFPX-C14TD
	FP-X C14P	100 to 240 V AC	8-point input of 24 V DC, 0.5 A / 24 V DC, 6-point output of transistor (PNP)	16 k steps	2-point	Not available	AFPX-C14P
	FP-X C14PD	24 V DC	8-point input of 24 V DC, 0.5 A / 24 V DC, 6-point output of transistor (PNP)	16 k steps	2-point	Not available	AFPX-C14PD
	FP-X C30T	100 to 240 V AC	16-point input of 24 V DC, 0.5 A / 5 to 24 V DC, 14-point output of transistor (NPN)	32 k steps	2-point	Available	AFPX-C30T
	FP-X C30TD	24 V DC	16-point input of 24 V DC, 0.5 A / 5 to 24 V DC, 14-point output of transistor (NPN)	32 k steps	2-point	Available	AFPX-C30TD
	FP-X C30P	100 to 240 V AC	16-point input of 24 V DC, 0.5 A / 24 V DC, 14-point output of transistor (PNP)	32 k steps	2-point	Available	AFPX-C30P
	FP-X C30PD	24 V DC	16-point input of 24 V DC, 0.5 A / 24 V DC, 14-point output of transistor (PNP)	32 k steps	2-point	Available	AFPX-C30PD
	FP-X C60T	100 to 240 V AC	32-point input of 24 V DC, 0.5 A / 5 to 24 V DC, 28-point output of transistor (NPN)	32 k steps	4-point	Available	AFPX-C60T
	FP-X C60TD	24 V DC	32-point input of 24 V DC, 0.5 A / 5 to 24 V DC, 28-point output of transistor (NPN)	32 k steps	4-point	Available	AFPX-C60TD
	FP-X C60P	100 to 240 V AC	32-point input of 24 V DC, 0.5 A / 24 V DC, 28-point output of transistor (PNP)	32 k steps	4-point	Available	AFPX-C60P
	FP-X C60PD	24 V DC	32-point input of 24 V DC, 0.5 A / 24 V DC, 28-point output of transistor (PNP)	32 k steps	4-point	Available	AFPX-C60PD

Note: The 24 V DC inputs of all units are bi-directional (sink/source) inputs.

■ Expansion units

Product name		Power supply	Specifications	Part No.
Input	FP-X E16X Expansion Input Unit	(Power is supplied from the left-side unit.)	16-point input of 24 V DC	AFPX-E16X
	FP-X 14YR Expansion Output Unit	(Power is supplied from the left-side unit.)	14-point output of 24 V DC	AFPX-E14YR
Relay output	FP-X E16R Expansion I/O Unit	(Power is supplied from the left-side unit.)	8-point input of 24 V DC, 8-point relay output of 2 A Remarks; Two or more units can't be connected serially because it can't supply the power to other units. With an 8 cm 3.15 in extension cable	AFPX-E16R
	FP-X E30R Expansion I/O Unit	100 to 240 V AC	16-point input of 24 V DC, 14-point relay output of 2 A Remarks; Possible to connect up to 8 units including E16 and AFPX-EFP0. With an 8 cm 3.15 in extension cable	AFPX-E30R
	FP-X E30RD Expansion I/O Unit	24 V DC	16-point input of 24 V DC, 14-point relay output of 2 A Remarks; Possible to connect up to 8 units including E16 and AFPX-EFP0. With an 8 cm 3.15 in extension cable	AFPX-E30RD
Transistor output	FP-X E16T Expansion I/O Unit	(Power is supplied from the left-side unit.)	8-point input of 24 V DC, 0.5 A / 5 to 24 V DC, 8-point output of transistor (NPN) Remarks; Two or more units can't be connected serially because it can't supply the power to other units. With an 8 cm 3.15 in extension cable	AFPX-E16T
	FP-X E16P Expansion I/O Unit	(Power is supplied from the left-side unit.)	8-point input of 24 V DC, 0.5 A / 24 V DC, 8-point output of transistor (PNP) Remarks; Two or more units can't be connected serially because it can't supply the power to other units. With an 8 cm 3.15 in extension cable	AFPX-E16P
	FP-X E30TD Expansion I/O Unit	24 V DC	16-point input of 24 V DC, 0.5 A / 5 to 24 V DC, 14-point output of transistor (NPN) Remarks; Possible to connect up to 8 units including E16 and AFPX-EFP0. With an 8 cm 3.15 in extension cable	AFPX-E30TD
	FP-X E30T Expansion I/O Unit	100 to 240 V AC	16-point input of 24 V DC, 0.5 A / 5 to 24 V DC, 14-point output of transistor (NPN) Remarks; Possible to connect up to 8 units including E16 and AFPX-EFP0. With an 8 cm 3.15 in extension cable	AFPX-E30T
	FP-X E30PD Expansion I/O Unit	24 V DC	16-point input of 24 V DC, 0.5 A / 24 V DC, 14-point output of transistor (PNP) Remarks; Possible to connect up to 8 units including E16 and AFPX-EFP0. With an 8 cm 3.15 in extension cable	AFPX-E30PD
	FP-X E30P Expansion I/O Unit	100 to 240 V AC	16-point input of 24 V DC, 0.5 A / 24 V DC, 14-point output of transistor (PNP) Remarks; Possible to connect up to 8 units including E16 and AFPX-EFP0. With an 8 cm 3.15 in extension cable	AFPX-E30P
	Expansion FP0 Adapter	24 V DC	Up to three FP0 expansion units can be connected via an adapter. With an 8 cm 3.15 in extension cable and power cable	AFPX-EFP0

Note: The 24 V DC inputs of all units are bi-directional (sink/source) inputs.

FP-X

Add-on cassettes

Product name	Specifications	Part No.
FP-X I/O cassette	4-point input of 24 V DC, bi-directional (sink/source), 3-point output of NPN transistor 0.3 A/24 V DC	AFPX-IN4T3
FP-X Input cassette	8-point input of 24 V DC, bi-directional (sink/source)	AFPX-IN8
FP-X Output cassette	8-point output of NPN transistor, 0.3 A / 24 V DC	AFPX-TR8
	6-point output of PNP transistor, 0.5 A / 24 V DC	AFPX-TR6P
FP-X Pulse I/O cassette	High-speed counter input: single-phase 2 channels, each 80 k Hz or two-phase 1 channel, 30 k Hz Pulse output: one axis 100 kHz / channel (Use restriction is applied for a two-unit installation) Cannot be used with a transistor output type control unit.	AFPX-PLS
FP-X Analog input cassette	2-point analog input, 0 to 10 V / 0 to 20 mA, 12-bit, 2 ms / 2 channels (non-insulated)	AFPX-AD2
FP-X Analog output cassette	2-point analog output, 0 to 10 V / 0 to 20 mA, 12-bit, 2 ms / 2 channels (insulated)	AFPX-DA2
FP-X Analog I/O cassette	2-point analog input, 0 to 5 V / 0 to 10 V or 0 to 20 mA, 12-bit, 2 ms / 2 channels (insulated) 1 point analog output, 0 to 10 V / 0 to 20 mA, 12-bit, 1 ms / 1 channel (insulated)	AFPX-A21
FP-X Thermocouple input cassette	2-point thermocouple input, K / J type, Resolution: 0.2 °C 32.36 °F , 200 ms / 2 channels (between channels: insulated)	AFPX-TC2
FP-X R.T.D. input cassette	2-points R.T.D. input, Pt100, Resolution: 0.1 °C 32.18 °F , 200 ms (between channels: insulated)	AFPX-RTD2
FP-X Master memory cassette with a real-time clock	Master memory: Capable of storing all program steps and comments simultaneously. Storage of FPWIN Pro source files Real time clock: Year, month, day, hour, minute, second, day of week (optional battery required)	AFPX-MRTC
FP-X COM1 Communication cassette	RS232C 1 channel, RS and CS control signal equipped (non-insulated)	AFPX-COM1
FP-X COM2 Communication cassette	RS232C 2 channels (non-insulated)	AFPX-COM2
FP-X COM3 Communication cassette	RS485 / RS422 selectable 1 channel (insulated)	AFPX-COM3
FP-X COM4 Communication cassette	RS485 1 channel (insulated) and RS232C 1 channel (non-insulated)	AFPX-COM4
FP-X COM5 Communication cassette	Ethernet 1 channel (10BASE-T, 100BASE-TX) and RS232C 1 channel (non-insulated)	AFPX-COM5
FP-X COM6 Communication cassette	RS485 2 channels (insulated)	AFPX-COM6
Control Configurator WD	Tool software for setting the Ethernet port of the COM5 communication cassette (Can be downloaded free of charge from our website)	

Options and maintenance parts

Product name	Specifications	Part No.
FP-X Backup battery	Battery for backing up the operation memory and real-time clock	AFPX-BATT
FP-X Expansion cable	Expansion unit connection cable, 8 cm 3.15 in	AFPX-EC08
	Expansion unit connection cable, 30 cm 11.81 in	AFPX-EC30
	Expansion unit connection cable, 80 cm 31.50 in	AFPX-EC80
FP-X Terminal block	Terminal block for C30, C60 and E30, 21 pins, cover with no marking, four units included	AFPX-TAN1

FP2SH


CPU units (Built-in RAM)

Product name		Operation speed	Built-in RAM	Optional memory			Other		Product No.	Part No.
				Expansion RAM	ROM	IC memory card	Clock/calendar	Comment memory		
FP2SH	32 k Standard type	From 0.03 μs	32 k steps	Not available	Available (separately sales)	Not available	Available (built-in)	Available (built-in)	FP2-C2L	AFP2221
	60 k Standard type		60 k steps	Not available	Available (separately sales)	Not available	Available (built-in)	Available (built-in)	FP2-C2	AFP2231
	60 k type with IC memory card interface		60 k steps	Not available	Available (built-in)	Available (separately sales)	Available (built-in)	Available (built-in)	FP2-C2P	AFP2235
	120 k type with IC memory card interface		120 k steps	Not available	Available (built-in)	Available (separately sales)	Available (built-in)	Available (built-in)	FP2-C3P	AFP2255

FP2SH
Optional memories for FP2SH

Product name		Specifications	Product No.	Part No.
Expansion memory unit		Memory board in which the nonvolatile memory was mounted beforehand	AFP2208	AFP2208
IC memory card (Small PC card) for FP2SH CPU unit with IC memory card interface	SRAM	Perfect for data memory Can also be used for program backup. Battery backups.	AFP2209	AFP2209

Backplanes



Product name		Specifications	Product No.	Part No.
FP2 Backplane	Conventional type	5-module type (for master)	FP2-BP05	AFP25005
		7-module type (for master and expansion)	FP2-BP07	AFP25007
		9-module type (for master and expansion)	FP2-BP09	AFP25009
		12-module type (for master and expansion)	FP2-BP12	AFP25012
		14-module type (for master and expansion)	FP2-BP14	AFP25014
	H type	8 slots (for master)	FP2-BP11MH	AFP25011MH
		8 slots (for expansion)	FP2-BP10EH	AFP25010EH
FP2 Expansion Cable		0.6 m 2.0 ft	FP2-EC	AFP2510
		2 m 6.6 ft	FP2-EC2	AFP2512

Power supply units

Product name		Specifications	Product No.	Part No.
FP2 Power Supply Unit		Input: 100 to 120 V AC, Output: 2.5 A	FP2-PSA1	AFP2631
		Input: 200 to 240 V AC, Output: 2.5 A	FP2-PSA2	AFP2632
		Input: 100 to 240 V AC, Output: 5 A	FP2-PSA3	AFP2633
		Input: 24 V DC, Output: 5 A	FP2-PSD2	AFP2634

I/O units

Product name	Type	Number of point	Connection method	Specifications	Product No.	Part No.
FP2 Input Unit	DC input	16 points	Terminal block	12 to 24 V DC	FP2-X16D2	AFP23023
		32 points	Connector	24 V DC	FP2-X32D2	AFP23064
		64 points	Connector	24 V DC	FP2-X64D2	AFP23067
FP2 Output Unit	Relay output	6 points	Terminal block	5 A, 2 points per one common	FP2-Y6R	AFP23101
		16 points	Terminal block	2 A, 8 points per one common	FP2-Y16R	AFP23103
	Transistor output NPN	16 points	Terminal block	0.5 A (12 to 24 V DC), 0.1 A (5 V DC)	FP2-Y16T	AFP23403
		32 points	Connector	0.1 A (12 to 24 V DC), 50 mA (5 V DC)	FP2-Y32T	AFP23404
		64 points	Connector	0.1 A (12 to 24 V DC), 50 mA (5 V DC)	FP2-Y64T	AFP23407
	Transistor output PNP	16 points	Terminal block	0.5 A (12 to 24 V DC), 0.1 A (5 V DC)	FP2-Y16P	AFP23503
		32 points	Connector	0.1 A (12 to 24 V DC), 50 mA (5 V DC)	FP2-Y32P	AFP23504
		64 points	Connector	0.1 A (12 to 24 V DC), 50 mA (5 V DC)	FP2-Y64P	AFP23507
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)	FP2-XY64D2T	AFP23467
				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	AFP23477
	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	AFP23567
				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	AFP23577

* Pressure welding socket is supplied.
A special tool (Part No.: AXY52000FP) is needed for connection.
Please purchase separately if you are using a terminal or flat cable socket.

Intelligent units for Analog I/O

Product name		Specifications	Number of I/O points	Product No.	Part No.
FP2 Analog Input Unit	FP2-AD8VI	Between channels: not insulated, Voltage: 1 to 5 V, ± 10 V Current: 4 to 20 mA, ± 20 mA	Analog input: 8 channels	FP2-AD8VI	AFP2400L
	FP2-AD8X	Between channels: insulated, Voltages, Currents, Thermocouples, R.T.D. (Resistance Thermometer Devices)	Analog input: 8 channels	FP2-AD8X	AFP2401
	FP2-RTD	R.T.D. type: Pt100, JPt100, JPt1000 type	R.T.D. input: 8 channels	FP2-RTD	AFP2402
FP2 Analog Output Unit		Voltage: -10 to +10 V, Current: 0 to 20 mA, Resolution: 1/4,096	Analog output: 4 channels	FP2-DA4	AFP2410

FP2SH

Positioning units, High-speed counter units and Pulse I/O units

Product name	Specifications			Product No.	Part No.
	Output type	Number of axes controlled	Speed command		
FP2 Positioning Unit RTEX	Network	2 axes type	1 pps to 32 Mpps	FP2-PN2AN	AFP243610
		4 axes type		FP2-PN4AN	AFP243620
		8 axes type		FP2-PN8AN	AFP243630
Control Configurator PM	Dedicated tool software for positioning unit RTEX, Japanese version			AFPS66110	AFPS66110
	Dedicated tool software for positioning unit RTEX, English version			AFPS66510	AFPS66510
FP2 Positioning Unit Multi function type (Note 3)	Transistor	2 axes, independent	1 pps to 500 kpps	FP2-PP21	AFP2432
		4 axes, independent		FP2-PP41	AFP2433
	Line driver	2 axes, independent	1 pps to 4 Mpps	FP2-PP22	AFP2434
		4 axes, independent		FP2-PP42	AFP2435
FP2 Positioning Unit Interpolation type	Transistor	2 axes (Linear, circular interpolation and synchronization)	1 pps to 500 kpps	FP2-PP2T	AFP243710
		4 axes (2-axis linear, 2-axis circular, 3-axis linear, 3-axis helical interpolation and 2-axis synchronization)		FP2-PP4T	AFP243720
	Line driver	2 axes (Linear, circular interpolation and synchronization)	1 pps to 4 Mpps	FP2-PP2L	AFP243711
		4 axes (2-axis linear, 2-axis circular, 3-axis linear, 3-axis helical interpolation and 2-axis synchronization)		FP2-PP4L	AFP243721
FP2 High-speed Counter Unit	8 interrupt inputs, 4-channel high-speed counter, 8 comparison outputs, Input: 24 V DC, Output: 5 to 24 V DC (0.1 A, 12 points / 0.8 A, 4 points)		NPN output	FP2-HSCT	AFP2441
			PNP output	FP2-HSCP	AFP2451
FP2 Pulse I/O Unit	8 interrupt inputs, 4-channel high-speed counter, 8 comparison outputs, 4-channel pulse output, 4-channel PWM output, Input: 24 V DC, Output: 5 to 24 V DC (0.1 A, 12 points / 0.8 A, 4 points)		NPN output	FP2-PXYT	AFP2442
			PNP output	FP2-PXYP	AFP2452

Notes:

- 1) Pressure welding socket is supplied. A special tool (Part No. AXY52000FP) is needed for connection. Please purchase separately if you are using a terminal or flat cable socket.
- 2) Please refer to "FP2 Part Number List" for Motor driver I/F terminal II.
- 3) Previous FP2 positioning units AFP2430 (FP2-PP2) and AFP2431 (FP2-PP4) are not compatible with the multi function type FP2 positioning unit. Please contact us.

Open network, serial communication and link-related intelligent units

Product name	Specifications	Number of channel	Product No.	Part No.
FP2 VE2 Link Unit	10 Mbps, 8,192 points / 8,192 words, 99 units max. (VE mode), 254 units max. (FL-net), 2,500 m 8,202.1 ft	1 channel	FP2-VE2	AFP279601
FP2 ET-LAN2 Unit	Ethernet-compatible unit To be mounted on the CPU backplane	1 channel	FP2-ET2	AFP27901
Control Configurator ET	ET-LAN unit setting software, Japanese version	–	AFPS32110	AFPS32110
	ET-LAN unit setting software, English version	–	AFPS32510	AFPS32510
FP2 Multi-wire Link Unit	For PLC links Compatible with MEWNET-W / MEWNET-W2	1 channel	FP2-MW	AFP2720
FP2 Multi-Communication Unit	Up to two blocks to be attached can be selected among RS232C, RS422, and RS485 blocks. General-purpose serial communications, computer links, PLC links (MEWNET-W0)	2 channels	FP2-MCU	AFP2465
	RS232C block (For the multi-communication unit) 230 kbps, 15 m 49.0 ft max.	1 channel	FP2-CB232	AFP2803
	RS422 block (For the multi-communication unit) 230 kbps, 1,200 m 3,937.0 ft max.	1 channel	FP2-CB422	AFP2804
	RS485 block (For the multi-communication unit) For PLC links (MEWNET-W0): 115 kbps, 16 stations, 1,200 m 3,937.0 ft	1 channel	FP2-CB485	AFP2805

Intelligent units for remote I/O control

Product name	Specifications	Controllable I/O points	Product No.	Part No.
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	Max. 2,048 points per one unit	FP2-SMW	AFP2720
FP2 Remote I/O Slave Unit	Can connect as the remote I/O system MEWNET-F slave station. Digital I/O unit and positioning unit can be attached.	Max. 2,048 points per one unit	FP2-RMS	AFP2745
FP I/O Terminal Board [MIL connector type]	12 V DC input / 0.2 A Transistor output	Input: 16 points, Output: 16 points	AFP87445	AFP87445
	24 V DC input / 0.2 A Transistor output	Input: 16 points, Output: 16 points	AFP87446	AFP87446
FP I/O Terminal Board [Terminal type]	24 V DC input / 0.2 A Transistor output	Input: 16 points, Output: 16 points	AFP87444	AFP87444
	24 V DC input / 2 A Relay output	Input: 16 points, Output: 8 points	AFP87432	AFP87432

FP2SH
Intelligent units for remote I/O control

Product name	Specifications		Controllable I/O points		Product No.	Part No.
FP I/O Terminal Unit	Serves as a slave controller. Expandable up to 32 points. (Operating voltage: 24 V DC)	FP I/O Terminal Unit (basic)	Input unit 24 V DC input	Input 8 points	AFP87421	AFP87421
				Input 16 points	AFP87422	AFP87422
		Output unit 0.5 A Transistor output	Output 8 points	AFP87423	AFP87423	
			Output 16 points	AFP87424	AFP87424	
	FP I/O Terminal Expansion Unit (basic)	Input unit 24 V DC input	Input 8 points	AFP87425	AFP87425	
			Input 16 points	AFP87426	AFP87426	
		Output unit 0.5 A Transistor output	Output 8 points	AFP87427	AFP87427	
			Output 16 points	AFP87428	AFP87428	
FP2 S-LINK Unit	Direct connection to S-LINK reduced-wiring system		128 points		FP2-SL2	AFP2780

Options and maintenance parts

Product name	Specifications	Product No.	Part No.
Spare battery	For FP2SH CPU unit, battery with cable	AFP8801	AFP8801
Dummy unit	For blank slot	FP2-DM	AFP2300
Battery for small PC card	For AFP2209	—	AFP2806
Terminal block for FP2 I/O unit	FP2 I/O unit (terminal block type) supplied. (5 pieces)	—	AFP2800
Discrete-wire connector set (supplied)	FP2 I/O unit and positioning unit supplied. (2 pieces)	—	AFP2801
Flat cable connector set (40 leads)	For FP2 I/O unit and positioning unit. For simple connection using a flat cable. (2 pieces)	—	AFP2802
Multi-wire connector pressure contact tool	Necessary when wiring transistor output type connectors.	—	AXY52000FP

FP Memory Loader

*FP memory loader will be discontinued at the end of September, 2019.

Product name	Specifications	Part No.
FP Memory Loader	Data non-hold type	AFP8670
	Data hold type	AFP8671

Control FPWIN Pro7 (IEC61131-3 compliant Windows version software)

* The production of FP1, FP-M, FP3 and FP10SH has been discontinued.

Product name	Specifications	Part No.
Windows® version tool software Control FPWIN Pro7	Supports all FP series PLCs (FP7 series: Supports only CPU without encryption function) Supports English, Japanese, Chinese and Korean	CD-ROM for Windows® AFPSPR7A
	Security enhanced type Supports all FP series PLCs (FP7 series: Supports both CPU with / without encryption function) Supports English, Japanese, Chinese and Korean	CD-ROM for Windows® AFPSPR7AS

Control FPWIN GR

 * The production of FP1, FP-M, FP3 and FP10SH has been discontinued.
Note: FP-X compatible versions:
Relay output type - Ver. 2.5 or later;
Transistor output type - Ver. 2.7 or later

Product name	Type	Product No.	Part No.
Windows® version tool software Control FPWIN GR	Japanese version tool kit with cable	CD-ROM for Windows®, with cable (AFC8503) for connection of FP to DOS/V PC	FPWINGRF-JP2 AFPS10122
	English version, Full type	CD-ROM for Windows®	FPWINGRF-EN2 AFPS10520
	Korean	CD-ROM for Windows®	FPWINGRF-KR2 AFPS10920

PCWAY

(Operation data managing software)

Product name	Part No.
PCWAY Japanese: USB port	AFW1003
PCWAY English: USB port	AFW10031

Key unit

Economical type is available for secondary key.

Product name	Part No.
PCWAY Key unit USB port	AFW1033

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Panasonic:

FPWINGRF-EN2