Panasonic

FP0R Analog I/O cards

Compatibility FP0 mode

FP0R Analog cards Vs FP0 Analog cards

Panasonic

Category	Series	Designation/Description	Part Number	**Product Number**	**Recommended substitution**
PLC	FPΣ/FP0R expansion intelligent units (right-side expansion type)	FP0 A/D Converter Unit 8 Channels	AFP0401	**FP0-A80**	**AFP0RAD8**
		FP0-A04V D/A Converter Unit 4 channels	AFP04121	**FP0-A04V**	**AFP0RDA4**
		FP0-A04I D/A Converter Unit 4 channels	AFP04123	**FP0-A04I**	**AFP0RDA4**
		FP0 Analog I/O Unit	AFP0480	**FP0-A21**	**AFP0RA21**

AFP0RAD8 in FP0-AD8 mode

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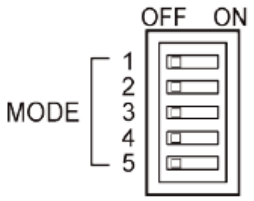

■ Setting of the mode switch

Item	No.	Settings			
Resolution and FP0-A21-compatible 12-bit mode input range	1	OFF	ON	OFF	ON
	2	OFF	OFF	ON	ON
		FP0-A80-compatible 12-bit mode 0 to 5V/0 to 20mA (Note 1)	FP0-A80-compatible 12-bit mode -10 to +10V	Reserved for system (Not settable)	14-bit mode (Note 2)
The number of converted CH	3	OFF	ON	OFF	ON
	4	OFF	OFF	ON	ON
		2ch (CH0-CH1)	4ch (CH0-CH3)	6ch (CH0-CH5)	8ch (CH0-CH7)
Input averaging	5	OFF: Averaging Not performed, ON: Averaging Performed			

(Note 1): When the both switch No.1 and No.2 are OFF, the voltage/current is switched by the connection method.

(Note 2): In the 14-bit mode, the input range is set by writing into the operation memory WY with a user program.

(Note 3): All the switches are set to OFF at the factory.

(Note 4): The switch settings will be valid when the power is turned ON from OFF. The settings will not change if the operation power supply is switched when it is ON.

AFP0RDA4 in FP0-A04V/FP0-A04I mode

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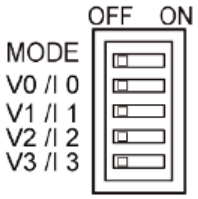

■ Setting of the mode switch

Item	No.	Settings	
Resolution	1	OFF : FP0-A04V/A04I compatible 12-bit mode, ON : 14-bit mode (Note 1)	
Output switch	2	CH0	OFF : Voltage output ON : Current output (Note 2)
	3	CH1	
	4	CH2	
	5	CH3	

(Note 1): In the 14-bit mode, the output range is set by writing into the operation memory WY with a user program.

(Note 2): For the both FP0-A04V/A04I compatibility 12-bit mode and 14-bit mode, the output can be selected for each channel.

(Note 3): All the switches are set to OFF at the factory.

(Note 4): The switch settings will be valid when the power is turned ON from OFF. The settings will not change if the operation power supply is switched when it is ON.

◆ KEY POINTS

- **In the FP0-A04V/A04I compatibility 12-bit mode, the voltage output range is -10 to +10 V, and the current output range is 4 to 20 mA.**

AFP0RA21 in FP0-A21 mode

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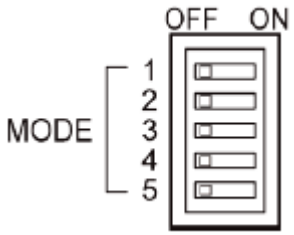

■ **Setting of the mode switch**

Item	No.	Settings			
I/O resolution and FP0-A21-compatible 12-bit mode input range	1	OFF	ON	OFF	ON
	2	OFF	OFF	ON	ON
		FP0-A21-compatible 12-bit mode 0 to 5V/0 to 20mA (Note 1)	FP0-A21-compatible 12-bit mode -10 to +10V	Reserved for system (Not settable)	14-bit mode (Note 2)
FP0-A21-compatible 12-bit mode output range (Note 3)	3	OFF	ON	OFF	ON
	4	OFF	OFF	ON	ON
		FP0-A21-compatible 12-bit mode 0 to 20mA	Reserved for system (Not settable)	FP0-A21-compatible 12-bit mode -10 to +10V	Reserved for system (Not settable)
14-bit mode output switch (Note 4)	3	OFF	ON	OFF	ON
	4	OFF	OFF	ON	ON
		CH0 Voltage output CH1 Voltage output	CH0 Current output CH1 Voltage output	CH0 Voltage output CH1 Current output	CH0 Current output CH1 Current output
Input averaging	5	OFF: Averaging Not performed, ON: Averaging Performed			

(Note 1): When the both switch No.1 and No.2 are OFF, the input voltage/current is switched by the connection method.

(Note 2): In the 14-bit mode, the input and ouput ranges are set by writing into the operation memory WY with a user program.

(Note 3): The setting of "FP0-A21 compatibility 12-bit mode output switch" of the switches No.3 and No.4 is valid when the switch No.2 is off.

(Note 4): The setting of "14-bit mode output switch" of the switches No.3 and No.4 is valid when the both switch No.1 and No.2 are on. Switching CH1 is available only for A42 type.

(Note 5): All the switches are set to OFF at the factory.

(Note 6): The switch settings will be valid when the power is turned ON from OFF. The settings will not change if the operation power supply is switched when it is ON.