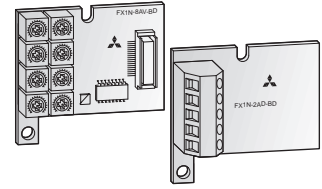


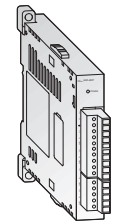
# FX Analog Options



## Analog Setpoint

The analog setpoint boards provide 8 analog setpoint potentiometers to the FX system. Setpoints can be polled by the PLC and used as default values for timers, counters and data registers.

Model Number	FX1N-8AV-BD	FX3G-8AV-BD
Stocked Item	S	S
Rating	CE	
Power Supply	5 VDC from main unit	
Analog Channels (Inputs)	8-bit	8-bit
Related I/O Points	0	0
Weight	0.02	0.02
Dimensions (W x H x D) mm	43 x 38.5 x 22	35 x 51 x 12
Applicable PLCs	FX1S / FX1N	FX3G



## Analog Input

Analog input modules can provide up to 8 analog inputs that are used to convert analog voltage or current signals into digital values which can be used by the FX PLC.

Model Number	FX1N-2AD-BD	FX3G-2AD-BD	FX3U-4AD-ADP	FX3U-4AD	FX3UC-4AD	
Stocked Item	S	S	S	S	-	
Rating	CE		UL • cUL • CE			
Power Supply	5 VDC (from main unit)	5 VDC (from main unit)	5 VDC / 15 mA (from main unit) 24 VDC / 40 mA	5 VDC / 110 mA (from main unit) 24 VDC / 90 mA	5 VDC / 100 mA (from main unit) 24 VDC / 80 mA	
Analog Channels (Input)	2	2	4	4	4	
Analog Range	0 to 10 VDC / 4 – 20 mA	0 to 10 VDC / 4 – 20 mA	0 to 10 VDC / 4 – 20 mA	-10 to 10 VDC / -20 to +20mA/ 4 to 20 mA DC	-10 to 10 VDC / -20 to +20mA/ 4 to 20 mA DC	
Resolution	Voltage	2.5 mV (12 bit)	2.5 mV	2.5 mV (12 bit)	0.32 mV (15 bit + sign)	0.32 mV (15 bit + sign)
	Current	8 µA (11 bit)	8 µA (11 bit)	10 µA (11 bit)	1.25 µA (14 bit + sign)	1.25 µA (14 bit + sign)
Overall Accuracy for Fullscale	±1%	±1%	±0.5% – 1% (*1)	± 0.3 – 1% fullscale (*1)	± 0.3 – 1% fullscale (*1)	
Related I/O Points	0	0	0	8	8	
Weight (kg)	0.02	0.02	0.1	0.2	0.13	
Dimensions (W x H x D) mm	43 x 38.5 x 22	35 x 51 x 29.2	17.6 x 90 x 89.5	55 x 90 x 87	20.2 x 90 x 89	
Applicable PLCs	FX1S / FX1N	FX3G	FX3U / FX3UC / FX3G	FX3U / FX3UC / FX3G	FX3UC	

Model Number	FX2N-2AD	FX2N-4AD	FX2NC-4AD	FX2N-8AD (*2)	
Stocked Item	S	S	S	S	
Rating	UL • cUL • CE (EMC)				
Power Supply	5 VDC / 20 mA (from main unit) 24 VDC / 50 mA (from main unit)	5 VDC / 30 mA (from main unit) 24 VDC / 55 mA	5 VDC / 50 mA (from main unit) 24 VDC / 130 mA	5 VDC / 50 mA (from main unit) 24 VDC / 80 mA	
Analog Channels (Input)	2	4	4	8	
Analog Range	0 to 10 VDC / 0 to 5 VDC / 4 to 20 mA DC	-10 to 10 VDC / -20 to 20 mA DC / 4 to 20 mA DC	-10 to 10 VDC / -20 to 20 mA DC / 4 to 20 mA DC	-10 to 10 VDC / -20 to 20 mA DC / 4 to 20 mA DC	
Resolution	Voltage	2.5 mV (12 bit)	5 mV (11 bit + sign)	0.32 mV (15 bit + sign)	0.63 mV (14 bit + sign)
	Current	4 µA (12 bit)	20 µA (10 bit + sign)	1.25 µA (14 bit + sign)	2.5 µA (13 bit + sign)
Overall Accuracy for Fullscale	Voltage	±1%	±1%	± 0.3 – 0.5% (*1)	± 0.3 – 0.5% (*1)
	Current				
Related I/O Points	8	8	8	8	
Weight (kg)	0.2	0.3	0.13	0.4	
Dimensions (W x H x D) mm	43 x 90 x 87	55 x 90 x 87	20.2 x 90 x 89	75 x 90 x 75	
Applicable PLCs	FX3U / FX3UC / FX3G / FX1N		FX3UC	FX3U / FX3UC / FX1N	

Notes:

1. Dependent on the ambient temperature.
2. The FX2N-8AD can be configured to accept standard analog inputs as well as selected temperature inputs such as K, T or J type thermocouples.