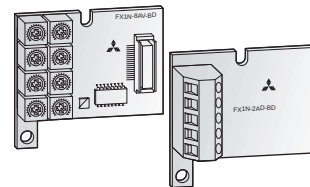


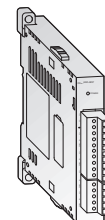
## FX Analog Options

### 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<br>(from main unit)<br>24 VDC / 40 mA | 5 VDC / 110 mA<br>(from main unit)<br>24 VDC / 90 mA | 5 VDC / 100 mA<br>(from main unit)<br>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/<br>4 to 20 mA DC       | -10 to 10 VDC / -20 to +20mA/<br>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)                              |
|                                | Current                 | 8 µA (11 bit)           | 8 µA (11 bit)                                       | 10 µA (11 bit)                                       | 1.25 µA (14 bit + sign)                              |
| Overall Accuracy for Fullscale | ±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)<br>24 VDC / 50 mA<br>(from main unit) | 5 VDC / 30 mA (from main unit)<br>24 VDC / 55 mA   | 5 VDC / 50 mA<br>(from main unit)<br>24 VDC / 130 mA | 5 VDC / 50 mA<br>(from main unit)<br>24 VDC / 80 mA |
| Analog Channels (Input)        | 2                                                                    | 4                                                  | 4                                                    | 8                                                   |
| Analog Range                   | 0 to 10 VDC / 0 to 5 VDC /<br>4 to 20 mA DC                          | -10 to 10 VDC / -20 to 20 mA DC /<br>4 to 20 mA DC | -10 to 10 VDC / -20 to 20 mA DC /<br>4 to 20 mA DC   | -10 to 10 VDC / -20 to 20 mA DC /<br>4 to 20 mA DC  |
| Resolution                     | Voltage                                                              | 2.5 mV (12 bit)                                    | 5 mV (11 bit + sign)                                 | 0.32 mV (15 bit + sign)                             |
|                                | Current                                                              | 4 µA (12 bit)                                      | 20 µA (10 bit + sign)                                | 1.25 µA (14 bit + sign)                             |
| Overall Accuracy for Fullscale | Voltage                                                              | ±1%                                                | ±0.3% – 0.5% (*1)                                    | ± 0.3 – 0.5% (*1)                                   |
|                                | Current                                                              |                                                    | ± 0.5 – 1.0% (*1)                                    |                                                     |
| 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.