

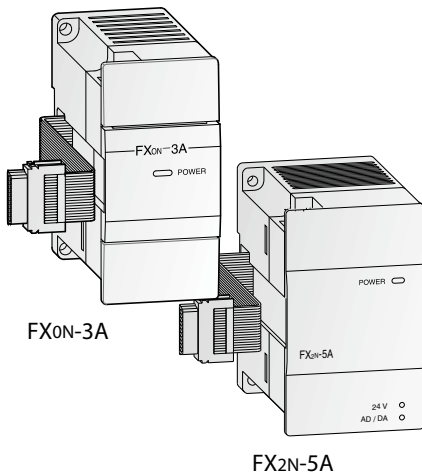
■ Combined Analog I/O Modules

FX1S FX1N FX2N FX2NC FX3U

FX0N-3A, FX2N-5A

- The analog input/output modules are available in two different models. They provide the user with 2 or 4 analog inputs and 1 analog output. They serve for conversion of analog process signals into digital values, and vice versa.
- As of the FX2N-5A module the analog inputs can be selected between current or voltage input signals.

Note: When attaching one of these analog modules to a FX2NC base unit, the interface adapter FX2NC-CNV-IF is required.



Specifications	FX0N-3A	FX2N-5A
Power supply	5 V DC / 30mA (from base unit); 24 V DC / 90 mA (from base unit)	5 V DC / 70mA (from base unit); 24 V DC / 90 mA
Analog channels	inputs	4
	outputs	1
Input range (resolution)	voltage	-10 to 10 V (15 bit + sign), -100 to 100 mV (11 bit + sign)
	current	-20 to 20 mA (14 bit + sign), 0/4 to 20 mA (14 bit)
Output range (resolution)	voltage	0 to 10 V (8 bit), 0 to 5 V (8 bit)
	current	4 to 20mA (8 bit)
Overall accuracy for fullscale	±1%	±0.3 – 1%*
Related I/O points	8	8
Weight	kg 0.2	0.3
Dimensions (W x H x D)	mm 43 x 90 x 87	55 x 90 x 87

*Dependent on the ambient temperature

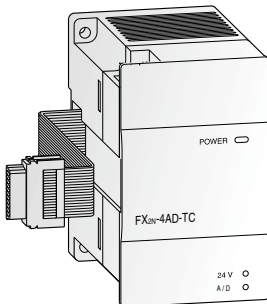
■ Analog Temperature Input Modules

FX1S FX1N FX2N FX2NC FX3U

FX2N-4AD-TC, FX2N-4AD-PT, FX2N-2LC

- The analog input module for thermocouples FX2N-4AD-TC is used for processing temperatures. It has 4 independent inputs for detecting signals from thermocouples of types J and K. The type of thermocouple can be chosen independently for each point.
- The analog input module for Pt100 inputs FX2N-4AD-PT permits the connection of four Pt100 sensors to the FX1N/FX2N/FX2NC/FX3U series controller.
- The temperature control module FX2N-2LC is equipped with two temperature input points and two transistor (open collector) output points. It is used to read temperature signals from thermocouples and Pt100 sensors, and performs PID output control

Note: The FX2N-2LC may not be used in combination with a FX1N series base unit. When attaching one of these modules to a FX2NC base unit, the interface adapter FX2NC-CNV-IF is required.



Specifications	FX2N-4AD-TC	FX2N-4AD-PT	FX2N-2LC
Power supply	5 V DC / 40 mA (from base unit); 24 V DC / 60 mA	5 V DC / 30 mA (from base unit); 24 V DC / 50 mA	5 V DC / 70 mA (from base unit); 24 V DC / 55 mA
Analog inputs	4 (J or K type)	4 (Pt100 sensors)	2 points
Compensated temperature range	°C -100 to 600 (J type) / -100 to 1200 (K type)	-100 to 600	Thermocouple and Pt100 sensor
Digital outputs	-1000 to 6000 (J type) / -1000 to 12000 (K type)	-1000 to 6000	2 transistor output points
Resolution	0.3 (J type) / 0.4 (K type)	0.2 to 0.3 °C	0.1 °C or 1 °C
Overall accuracy for fullscale	± (0.5% for fullscale +1 °C)	±1.0% for fullscale	±0.3% (±1 digit) for fullscale ^① ±0.7% (±1 digit) for fullscale ^②
Related I/O points	8	8	8
Weight	kg 0.3	0.3	0.3
Dimensions (W x H x D)	mm 55 x 90 x 87	55 x 90 x 87	55 x 90 x 87

① Ambient temperature 23 ± 5 °C

② Ambient temperature 0 to 55 °C