

### Temperature Input Options

The analog temperature input modules are used for J and K type thermocouple and Pt100 temperature sensor input and temperature control. 2 open collector transistor outputs are available with the FX2N-2LC.

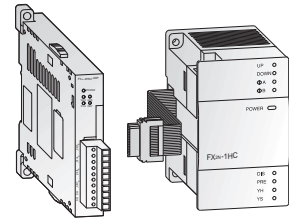
Model Number	FX3U-4AD-PTW-ADP	FX3U-4AD-PT-ADP	FX3U-4AD-PNK-ADP	FX3U-4AD-TC-ADP	FX2N-4AD-TC	FX2N-4AD-PT	FX2N-2LC	
Stocked Item	-	S	-	S	S	S	S	
Rating	UL • CUL • CE (EMC)							UL • CUL • CE
Power Supply	5 VDC / 15 mA (from main unit) 24 VDC / 50 mA	5 VDC / 15 mA (from main unit) 24 VDC / 50 mA	5 VDC / 15 mA (from main unit) 24 VDC / 50 mA	5 VDC / 15 mA (from main unit) 24 VDC / 45 mA	5 VDC / 40 mA (from main unit) 24 VDC / 60 mA	5 VDC / 30 mA (from main unit) 24 VDC / 50 mA	5 VDC / 70 mA (from main unit) 24 VDC / 55 mA	
Analog Inputs	4 (Pt100 sensors)	4 (Pt100 sensors)	4 (Pt1000 or Ni1000)	4 (J or K type)	4 (J or K type)	4 (Pt100 sensors)	2 points (Thermocouple and Pt100 sensor)	
Compensated Temperature Range (°C)	-100 to +600	-50 to +250	-50 to +250 (Pt1000) -40 to +110 (Ni1000)	-100 to +600 (J type) -100 to +1000 (K type)	-100 to +600 (J type) -100 to +1200 (K type)	-100 to +600	-200 to +1300	
Digital Outputs	-1000 to +6000	-500 to +2500	-500 to +2500 (Pt1000) -400 to +1100 (Ni1000)	-1000 to +6000 (J type) -1000 to +10000 (K type)	-1000 to +6000 (J type) -1000 to +12000 (K type)	-1000 to +6000	2 transistor output points	
Resolution (°C)	0.2 to 0.3	0.1	0.1	0.3 (J type) 0.4 (K type)	0.3 (J type) 0.4 (K type)	0.2 – 0.3	0.1 or 1	
Overall Accuracy for Fullscale	±0.5% – 1%*	±0.5% – 1%*	±0.5% – 1%*	±0.5% – 1%*	±0.5% – 1%*	±1.0%	±0.3% – 0.7% (±1 digit)*	
Related I/O Points	0	0	0	0	8	8	8	
Weight	0.1	0.1	0.1	0.1	0.3	0.3	0.3	
Dimensions (W x H x D) mm	17.6 x 90 x 89.5	17.6 x 90 x 89.5	17.6 x 90 x 89.5	17.6 x 90 x 89.5	55 x 90 x 87	55 x 90 x 87	55 x 90 x 87	
Applicable PLCs	FX3U / FX3UC / FX3G				FX3U / FX3UC	FX3U / FX3UC / FX3G /FX1N		

Note: Dependent on the ambient temperature.

### FX High-Speed I/O and Positioning Expansion

#### High Speed Counters and Pulse Train Output

These high speed modules provide additional counting and pulse output features to the PLC.



Model Number	FX2N-1HC	FX2NC-1HC	FX3U-4HSX-ADP	FX3U-2HSY-ADP
Stocked Item	S	-	S	S
Rating	UL • CUL • CE		UL • CUL • CE (EMC)	
Signal Level	5, 12, 24 VDC / 7 mA		5 VDC	Differential line driver
Power Supply	5 VDC	90 mA (from main unit)		
	24 VDC	30 mA (from main unit)		
Maximum Connectivity	—		30 mA (from main unit)	60 mA (from main unit)
Counter	Inputs	1 phase (1 input or 2 input); 2 phase ( 1 edge, 2 edge or 4 edge count)		
	Outputs	—		
Max Counting Frequency	Input	50 kHz		
	Output	—		
Input Format	16 bit / 32 bit		Differential line receiver (equivalent to AM26C32) photocoupler isolation on inputs	
Type of Counter	Up / down counter, ring counter		—	
Output Format	—		Differential line driver (equivalent to AM26C32) pulse/direction or forward/reverse rotation)	
Counting Range (Up/Down & Ring Counter)	16 bit	0 to 65,535	—	
	32 bit	-2147483648 to +2147483647	—	
Output Type	2 x transistor ( 5 to 24 VDC / 0.5A)		less than 25 mA	
Related I/O Points	8		4 (2 output points occupied per high speed output)	
Weight (kg)	0.3		0.08	
Dimensions (W x H x D) mm	55 x 90 x 87		17.6 x 90 x 89.5	
Applicable PLCs	FX3U / FX3UC		FX3U	