Industrial Computing & PLC's Farnell

Extension Blocks

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These blocks increase the capability or capacity when added to any powered base or extension unit. Extension blocks need only the signal lines and no other power source to operate.

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				Price	Each	
	Mftrs. List No.	Order Code	1+	2+	5+	10+
Unpowered Ext	ension Blocks					
16 I/P	FX2N16EX-ES/UL	725-8161				
16 O/P trans	FX2N16EY-ESS/UL	725-8173				
16 O/P relay	FX2N16YR-ES/UL	725-8185				
Powered Exten	sion Blocks					
16 I/P,						
16 O/P Relay	FX2N32ER-ES/UL	725-8197				
24 I/P,						
24 O/P Relay	FX2N48ER-ES/UL	725-8203				
24 I/P,						
24 O/P Relay	FX2N48ET-ESS/UL	725-8215				

Analogue Input/Analogue Output

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All FX2N analogue blocks have 4 channels processing 12 bit analogue signals. They connect on to the FX2N in the same manner as an expansion block. Each analogue block does require an additional 24V d.c. power source. Communication to each ana-logue block is carried out using two simple instructions (TO/FROM) to read and write data to the units own internal buffer memory and CPU. All analogue units have optoisolation between digital and analogue circuits.

Note: for configuration purposes each analogue/temperature unit is considered as occupying 8 I/O points on an FX2N system

Analogue input (FX2N-4AD)/analogue output (FX2N-4DA)

- Offset and gain can be set up for each channel providing accurate control Analogue input values can be read directly or automatically averaged over a user defined number of readings •
- Each channel can be independently configured to operate with voltage or current signals; -10 to +10V (both units), +4 to +20mA (both units), -20 to +20mA (analogue input only), 0 to 20mA (analogue output only)

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	Mftrs.			Price	Each		
Desc Analoque	List No.	Order Code	1+	2+	5+	10+	
In Analoque	FX2N-4AD	725-8240					
Out	FX2N-4DA	725-8276					

Thermocouple and PT100 Input

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- Current/present temperature is available in both centigrade and fahrenheit temperature formats Each unit automatically calculates the average over a user defined period (between
- and 4096 readings)
- Each unit has its own dedicated diagnostics and error status information **Technical Specificatio**

	Thermocouple PT100	FX2N-4AD-TC FX2N-4AD-PT	725-8264 725-8252					
	Desc.	LIST NO.	uraer Code	1+	2+	5+	10+	
	Deer	Mftrs.	Ouden Oede		Price	Each	10	
	Technical Specific Power supply Current consumpti Channels PT100 input senso active temp range -100 to +600°C	ation - PT100 Inp 24 on 5V 4 i r temperature cha res 0.2	Nut V dc +/10%, 50 V dc 30mA from ndependantly cc rracteristics solution 2 to 0.3°C	nA base unit nfigurable	channels			
	Tashnisal Crosifi	otion DT100 las						
k type J type		-10	00 to +600°C	0.4°C	0.4 C 0.3°C			
	thermocouple	ac	tive temp range		resolutio	on		
Thermocouple temperature c		perature characte	acteristics					
Channels		011 5V 4 i	3V 0C 4000 Trom Dase unit					
Power supply		24	24V dc +/10%, 50mA					

Open Late!

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Internet www.farnell.com

High Speed Counter 🙏 MITSUBISHI

This unit provides an independent high speed counter input to an FX2N system. The unit is controlled using TO/FROM instructions. There are hardware outputs which can be triggered by an internal counter comparison feature to get very high speed respons-

Note: For configuration purposes each this unit is considered as occupying 8 I/O points an FX2N system

Inputs

- Inputs can be single or 2 phase up to 50kHz
 Single phase counters can be configured with 1 or 2 inputs
 Two phase counters can be configured with 1, 2 or 4 edge counting profiles
- Input Signals of 5V, 12V and 24V (Sink or Source) are accepted
 16 and 32 bit counter ranges are available
- Outputs
- 12 to 24 V d.c. (0.3A max) sources can be controlled
 Optional outputs offer Sink or Source switching
- Hardwired outputs can automatically be triggered after the counter has reached user defined predetermined values/limits

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	Mftrs.			Price	Each		
	List No.	Order Code	1+	2+	5+	10+	
	FX2N-1HC	725-8227					

Single Axis Positioning Unit

The pulse train output, of upto 100kpps (kilo pulses per second), is designed for use with either servo or stepper motors for positioning control. This unit is configured and used by using the TO/FROM instructions of the FX2N base unit. The unit offers predefined operating modes, in addition to the direct inputs for preven-

tion of ≤slow response errors≤ Note: For configuration purposes this unit is considered as occupying 8 I/O points on an FX2N system

- Pulse train output, of upto 10 to 100,000 pulses per second (pps) can be accom-
- modated
- Operational units can be specified as pulses/sec., cm/min, 10 deg/min and inch/min
- Predefined operating modes: jog operation, machine home position return, single speed positioning operation, interrupt single speed positioning operation, two speed positioning operation, external command (trigger) positioning operation variable speed operation

		Price Each			
Mftrs. List No.	Order Code	1+	2+	5+	10+
FX2N-1PG-E	725-8239				

Variable Setting Board

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The FX2N base units have the flexibility to be enhanced with additional function boards in the same way as communication boards are added. The boards are added directly to the base unit itself. The FX2N-8AV-BD offers users the ability to add 8 analogue pots, The data is read from the setting pots using two special instructions which can interpret the setting data as either an 11 position switch or as a data value from 0 to 255. Such setting data can be used as timer durations, counter preset values or just as a simple way of entering a set data value without the need for a programming tool.

		Price Each				
Mftrs. List No.	Order Code	1+	2+	5+	10+	
FX2N-8AV-BD	725-8355					

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