

## 'MicroSmart' FC4A Logic Controller



Expansion Modules (C24R2 only)

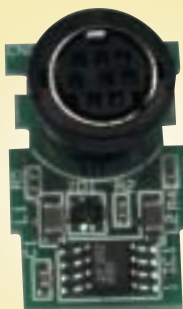


The IDEC Microsmart is one of the latest generation of brick size programmable logic controllers (PLC.) The C24R2 model may be expanded with up to 4 expansion modules and accessories such as, a real time clock, external communications adaptor and LCD display module. Programming is via IDEC's Windows based ladder logic package, downloaded via RS232 port. For complex installations up to 32 PLC's may be networked together. Connections are made to the PLC via a plug-in screw terminal connectors. Although not shown, the entire range is available in a slim-line version (with IDC connectors) suitable for space saving applications, please enquire with sales for more information. For first time users a starter pack provides a cost effective means of purchasing a FC4A-C16R2 PLC, all required software, leads, adaptors and manual to get started.

Rated power voltage	85 - 264VAC
Dielectric strength	1500VAC between I/O and ground
User program storage	EEPROM
Temperature	0 - 55°C
IP Rating	IP20
Dimensions mm.	H=90, W=80, D=70 (C10R2, C16R2) H=90, W=95, D=70 (C24R2)
Approvals	UL, CE



LCD Display Unit



Communications Adaptor

### Inputs specification

Digital	20.4V - 28.8VDC, 3.4kohm (impedance)
Analogue	0-10VDC, 1megohm (impedance) 4-20mA, 10 ohm (impedance)
Internal analogue input	2 built-in user adjustable potentiometers provide 0-10VDC signal
Resistance thermometer	Pt 100 3-wire type (-100 to 500°C) 50hm max (impedance)
Thermocouple (type)	K (0 - 1300°C), J (0 - 1200°C), T (0 - 400°C) 250 ohm max (impedance)

### Outputs specification

Relay	1 N/O, 2A at 240VAC/30VDC
Analogue	0-10VDC, 2 kohm max. (impedance) 4-20mA, 300 ohm max. (impedance)
Transistor (sink/source)	300mA per output point, leakage 0.1mA max.

### Note:

\*Accessories can be fitted to all CPU's with the exception of the C10R2 which only has one communication port and therefore cannot accept external adaptors for external communications.  
\*Expansion modules can only be plugged in to the C24R2 model.

Stock No.	Manf Ref'	Input Type	Outputs	Unit Price		
				1-4	5-9	10+
<b>CPU's</b>						
5502309	FC4A-C10R2	6 DIGITAL (1 INTERNAL POT)	4 RELAY	89.00	86.33	83.66
5502312	FC4A-C16R2	9 DIGITAL (2 INTERNAL POTS)	7 RELAY	129.00	125.13	121.26
5502315	FC4A-C24R2	14 DIGITAL (2 INTERNAL POTS)	10 RELAY	169.00	163.93	158.86
<b>Expansion Modules(for C24R2 only)</b>						
5502318	FC4A-N08B1	8 DIGITAL		45.00	43.65	42.30
5502321	FC4A-N16B1	16 DIGITAL		70.00	67.90	65.80
5502324	FC4A-M08BR1	4 DIGITAL	4 RELAY	60.00	58.20	56.40
5502327	FC4A-M24BR2	16 DIGITAL	8 RELAY	155.00	150.35	145.70
5502330	FC4A-T08K1		8 TRANSISTOR SINK (NPN)	55.00	53.35	51.70
5502333	FC4A-T08S1		8 TRANSISTOR SOURCE (PNP)	55.00	53.35	51.70
5502336	FC4A-L03A1	2 ANALOGUE	1 ANALOGUE	195.00	189.15	183.30
5502339	FC4A-L03AP1	1 THERMOCOUPLE/1RES THERM	1 ANALOGUE	220.00	213.40	206.80
<b>Accessories (which plug into the main CPU)</b>						
5502342	FC4A-PT1	REAL TIME CLOCK CARTRIDGE		20.00	19.40	18.80
5502345	FC4A-PC1	RS232C MINI DIN CONNECTOR (FOR C16R2, C24R2 MODELS ONLY)		20.00	19.40	18.80
5502348	FC4A-PC2	RS485 MINI DIN CONNECTOR (FOR C16R2, C24R2 MODELS ONLY)		20.00	19.40	18.80
5502351	FC4A-PC3	RS 485 TERMINAL CONNECTOR (FOR C16R2, C24R2 MODELS ONLY)		20.00	19.40	18.80
5502354	FC4A-PH1	LCD DISPLAY MODULE		28.00	27.16	26.32
5502357	FC4A-PM32	MEMORY CARTRIDGE (32k)		18.00	17.46	16.92
<b>Programming Software</b>						
5502360	FC9Y-LP2CDW	WindLDR Ver.4 95/98 & NT		98.00	95.06	92.12
5502363	FC2A-KC4C	PC to PLC PROGRAMMING CABLE (9 way D type female to mini DIN)		28.00	27.16	26.32
<b>Starter Kit</b>						
5502366	FC4START16	PLC STARTER PACKAGE (Includes 16 I/O PLC, all required software, leads, adaptors and manual)		162.00	157.14	152.28