



FC-20

20-POINT CONTROLLER

DESCRIPTION

The EasyIO FC series is aimed at affordable 'canned' solutions for standalone applications, such as roof top units, fan coils, AHU's, package units, etc.

The FC-20 is the first product in the FC range, designed to complement the EasyIO 30P and the awarding winning FG+ series. All of the FC series products are equipped with two RS485 ports. For Ethernet applications you can upscale to the 30P or one of the FG series controllers. All FC products are BACnet and Modbus selectable and can be programmed live and free via CPT Tools

The FC-20 has 20 points of I/O and is priced to meet most high volume applications and price points. The microprocessor based controller has 20 I/O to accommodate general and specific applications featuring BACnet MSTP and Modbus RTU communication protocols. The 20 IOs include, 12 Universal Inputs (UI) supporting current, voltage and resistance based sensor, 4 electrically isolated Digital Outputs (DO) and 4 Analog Outputs supporting current and voltage outputs.

The FC-20 comes with one standard RS485 driver to support either BACnet MSTP or Modbus RTU communication (selection via hardware dip-switch). This communication port is also used as configuration/ setting and firmware upgrade.

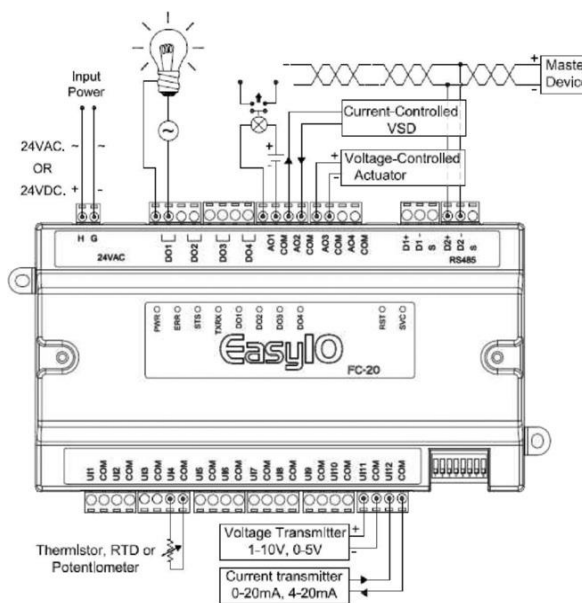
The concept behind the FC series is that the FC-20 is configured can be used as an input/output controller only, or an Application Specific Application Controller. There is also a Real-time clock and a second RS485 (reserved for communicating with other Modbus devices such as Power Meters) are provided for such application.

FEATURES

- Sedona Framework support -programmed using Online Tools inc. CPT Tool;
- BACnet MS/TP Server Functionality Support;
- Modbus RTU Slave Support;
- 12 Universal Inputs; Digital, Voltage, Current or Resistance;
- 4 24VAC relay Outputs;
- 4 Analogue Outputs; Voltage or Current;
- DIP Selectable Communication Mode.

TECHNICAL DATA

WIRING DIAGRAM



ITEM	DESCRIPTION
Supply Voltage	24Vac +/- 5% or 24Vdc +20% / -15%
Power Consumption	<11VA
Storage temp	-20°C to 85°C
Operating temp. range	0°C to 65°C
Operating Humidity	10% to 90% RH non-condensing
Dimensions	215 x 125 x 45 (mm)
Material	UL Approved
Weight	410g
Universal Inputs	12 x UI , 12-bit ADC with PGA Resistance mode : 0 – 30K Ohms (+/- 50 Ohm) , 0 – 10K Ohms (+/- 5 Ohm) 0 – 1K Ohms (+/- 50 Ohm) Voltage Mode : 0-10V (+/- 0.01V) Current Mode : 0-20mA DC (+/- 0.01mA) Thermistor Sensor : NTC 10K Type 2/3, 3K, 20K (+/-0.1°C) RTD : 1k Balco, 1K Platinum (+/- 0.2 Ohm) Pulse count mode (max) : 20 Pulse per sec at 50% duty cycle (20Hz) Digital Mode : Voltage Free Contact
Digital Output	4 x DO (with LED's or status) Type : Relay, SPST NO, 24Vac/Vdc, 2 A
Universal Output	4 x UO , 12-Bit DAC , Voltage : 0-10Vdc , Current : 4-20mA
Communication 1	Physical Interface 1 (PORT 1) EIA-485 Two Wire, Half Duplex Modbus Baud Rate Speed : (9.6K, 19.2K, 38.4K, 57.6K, 115.2K) , Data Bits : 8 , Parity : None, Even, Odd Protocol : Modbus RTU, BACnet MSTP
Communication 2	Physical Interface 2 (PORT 2) EIA-485 Two Wire, Half Duplex Modbus Baud Rate Speed : (9.6K, 19.2K, 38.4K, 57.6K, 115.2K) , Data Bits : 8 , Parity : None, Even, Odd Protocol : Modbus RTU (For Application Specific only)

8 Hope St, Melrose Park, NSW 2114
 (02) 9804 6366 | sales@regulatoraustralia.com.au
 regulatorautomation.com.au

© Copyright Regulator Australia Pty Ltd. Due to our policy of continuous striving towards manufacturing excellence and design development, we reserve the right to change details or specifications without notice. While every effort is made to ensure accuracy at the time of publication, we shall not be held liable for any errors or omissions, implied or otherwise.

