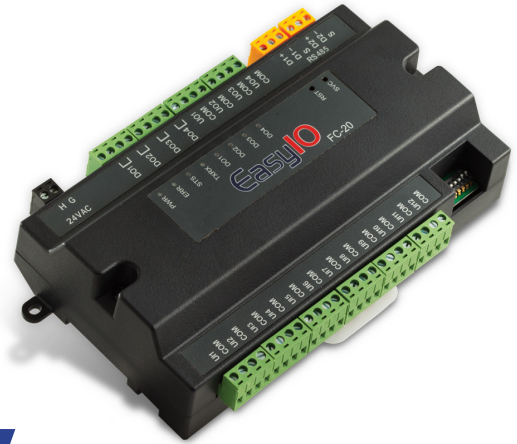


## 20-POINT IO EXPANSION CONTROLLER

The EasyIO FC20 is a cost-effective programmable controller, selectable between BACnet or Modbus. This versatile controller can be used for many applications such as RTU, AHU, FCU, small plant control, or as dummy inputs/outputs.

The FC20 has twelve (12) universal inputs (UI) supporting current, voltage and resistance-based sensors, 4 electrically isolated digital outputs (DO) and 4 analog outputs (12-bit DAC) supporting current and voltage outputs.



## SPECIFICATIONS



<b>Power Supply</b>	24V AC +/- 5% or 24V DC +20% / - 15%
Consumption	< 11VA
Current Rating	< 500mA at 24VAC/VDC
Storage Temp	-20 to 85 oC ( -4 to 185 oF )
Operating Temp	0 to 65 oC (32 to 150 oF)
Operating Humidity	10% to 90% Relative Humidity noncondensing
<b>Dimensions</b>	<b>191 x 104 x 44 (mm), 7.5 x 4.1 x 1.7 (inches)</b>
Material	Plastic conforms with UL
Weight	410g / 14.4 oz
<b>Main Processor</b>	<b>24 MHz ARM Cortex-M3</b>
Flash Memory	256KB
RAM	24KB
RS 485 Ports	2 x RS485
<b>Protocols Supported</b>	<b>BACnet MSTP Server / Modbus RTU (Selectable by DIP Switch)</b>
Modbus Baud Rate	Speed : (9.6K, 19.2k, 38.4K, 57.6K) , Data Bits : 8 , Parity : Odd, Even, None
BACnet Baud Rate	Speed : 9.6K, 19.2k, 38.4K, 76.8K
<b>Universal Inputs</b>	<b>12 x UI , 12-bit ADC with PGA</b> <b>Resistance Mode : 400 - 300K Ohms (+/- 10 Ohms)</b> <b>Voltage Mode : output range 0-10V DC, Min Load Impedance 2,000 Ohm. Maximum 5ma current draw</b> <b>Current mode: 0-20mA Max Load Impedance 800 Ohm.</b> <b>Impedance &lt; 25 Ohms</b> <b>Pulse count mode (max): 20 Pulse per sec at 50% duty cycle (20Hz) 4 channels only</b> <b>Digital mode : Voltage Free Contact</b>
Digital Output	4 x DO (with LED Indicator), Type: Relay Contacts, SPST NO, 48VA/2A at 24V
Analog Output	4 x AO, 12-bit DAC
<b>SKU</b>	<b>EasyIO-FC-20</b>
Warranty	Yes, ask your local EasyIO representative
Certifications	CE, BTL, UL, FCC
Engineer Tool	CPT
Product and Engineering License	Included
Annual Maintenance	Included
<b>Contact</b>	<b>www.easyio.com</b>