



## FD-20i

## 20-POINT IO EXPANSION MODULE

### DESCRIPTION

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The EasyIO FD-20i provides input point expansion capacity for all FS, FG+ and FW series controllers. The FD20i has 20 input points, supports BACnet MSTP or Modbus RTU as a selectable function and is equipped with a RS485 port. The inputs include 10 Digital Inputs (DI) and 10 Universal Inputs (UI) supporting resistance based (10K or 20K) or digital dry contact.

### FEATURES

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- Protocols Supported : BACnet MSTP Server, Modbus RTU Master
- Equipped with a RS485 port.
- Programming Tool : CPT
- Inputs / Outputs : 10 x UI / 10 x DI
- Main Processor : 48 Mhz ARM Cortex Ao
- Flash / RAM : 256KB / 32KB

## TECHNICAL DATA

ITEM	DESCRIPTION
Supply Voltage	24Vac +/- 5% or 24Vdc +20% / -15%
Power Consumption	12VA
Current Rating	500mA at 24Vac / Vdc
Storage temp	-20°C to 85°C
Operating temp. range	0°C to 65°C
Operating Humidity	10% to 90% RH non-condensing
Dimensions	192 x 104 x 44 (mm)
Material	UL Approved
Weight	410g
Main Processor	ARM Cortex 48 Mhz AO
Flash Memory	256KB
RAM	32KB
RS 485 Ports	1 x RS485
Protocols Supported	BACnet MSTP Server, Modbus RTU Master
Email Service	SMTP Protocol ( outgoing email ) with SSL authentication
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
Universal Inputs	10 x UI , 12-bit ADC with PGA Resistance mode : 400 – 300K Ohms (+/- 10 Ohms ) Thermistor sensor supported : NTC 10k Type 2/3 and NTC 20k (+/- 0.1°C)
Digital Inputs	10 x DI, Voltage free contact