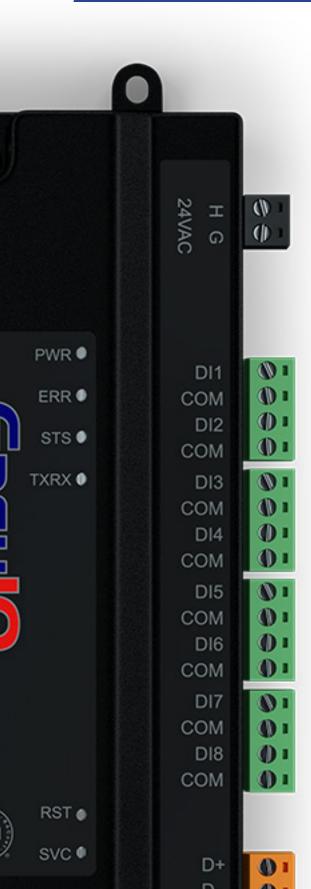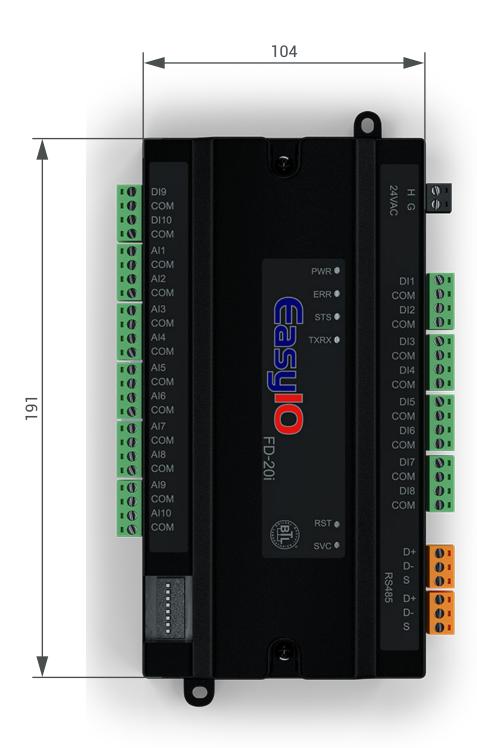# EASYIO FD-20i CONTROLLER.

EasyIO®

20 POINT INPUT MODULE.

The EasyIO FD-20i is the first in the FD range. It is developed to meet the demand from the EasyIO Partner Community to support the ability to design and install high performance, cost effective and complete EasyIO solutions.

The FD-20i has 20 input points, supports BACnet MSTP or Modbus RTU as a selectable function and is equipped with a single RS485 port. The inputs include 10 Digital Inputs (DI) and 10 Universal Inputs (AI) supporting various type of commonly use sensors.

H G
24VAC

PWR
ERR
STS
TXRX

DI1
COM
DI2
COM

DI3
COM
DI4
COM

DI5
COM
DI6
COM

DI7
COM
DI8
COM

RST
SVC

D+

THE DIMENSIONS.

104

191

DI9
COM
DI10
COM
AI1
COM
AI2
COM
AI3
COM
AI4
COM
AI5
COM
AI6
COM
AI7
COM
AI8
COM
AI9
COM
AI10
COM

H G
24VAC

PWR
ERR
STS
TXRX

DI1
COM
DI2
COM
DI3
COM
DI4
COM
DI5
COM
DI6
COM
DI7
COM
DI8
COM

easyIO
FD-20i

BTL

RST
SVC

D+
D-
S
D+
D-
S

RS485

THE SPECIFICATIONS.

DETAILS:

Power Supply	24V AC +/- 5% or 24V DC +20%/-15%
Consumption	<11VA
Current Rating	< 500mA at 24VAC/VDC
Storage temp	-20 to 85 °C (-4 to 185 °F)
Operating temp	0 to 65 °C (32 to 150 °F)
Operating humidity	10% to 90% relative humidity non-condensing
Dimensions	191 x 104 x 44 mm (L x W x H)
Material	UL Approved
Weight	410g

CHARACTERISTICS:

Processor	48 Mhz ARM Cortex A0
Flash Memory	256KB
RAM	32KB
RS 485 Ports	1 x RS485

THE SPECIFICATIONS.

INPUTS & OUTPUTS:

Universal Inputs

12 x UI, 12 bit ADC with PGA

2 modes:

Resistance mode: 400 - 300K Ohms

Thermistor sensor supported: NTC 10k

Type 2/3 and NTC 20k (+/- 0.1 °C)

Digital mode: Voltage Free Contact

COMMUNICATION:

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, 78.6K)

KEY FEATURES.

- BACnet MS/TP Server Functionality Support
- Modbus RTU Slave Support
- 10 Digital Inputs; Voltage free contact
- 10 Analog Inputs; Digital or Resistance
- DIP Selectable Communication Mode

ASHRAE BACnet   Modbus

PARTNER DETAILS.

CONTACT

EasyIO Europe B.V.
info@easyio.eu   www.easyio.eu

EasyIO Holdings Pte Ltd.
info@easyio.com   www.easyio.com