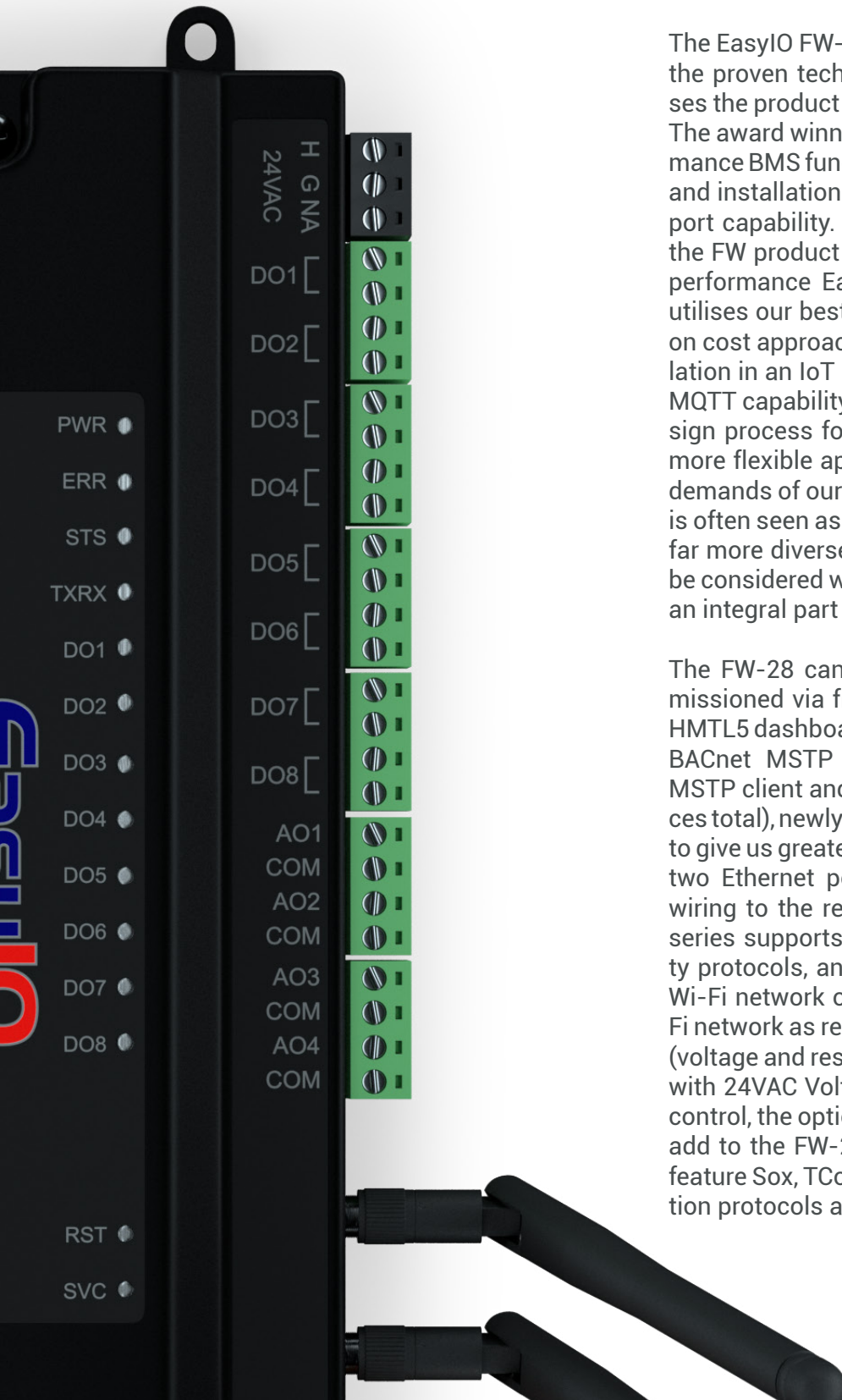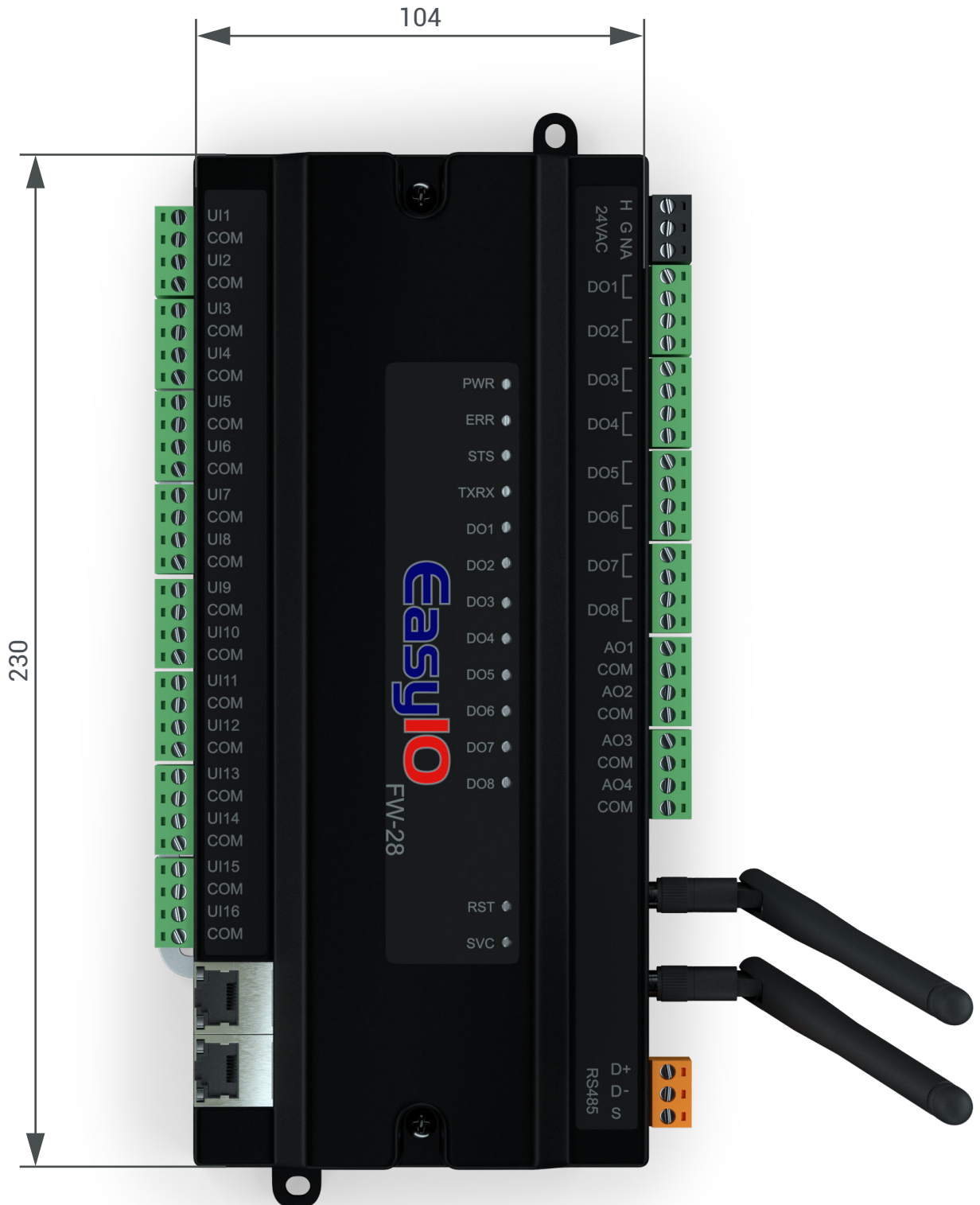# EASYIO FW-28 CONTROLLER.

28 POINT WI-FI AND IP CONTROLLER.

The EasyIO FW-28 extends the FW series with all the proven technology of the range and increases the product reach with a larger I/O capability. The award winning FW series deliver high performance BMS functionality, with flexibility in design and installation with the Wi-Fi and dual Ethernet port capability. Dependent on your requirement, the FW product range can be used within a high performance EasyIO total system solution and utilises our best performance and overall solution cost approach. Or simply implemented in isolation in an IoT based demand, with the onboard MQTT capability. The FW series opens up the design process for our Partners and permits a far more flexible approach to delivering the modern demands of our buildings. The FW product range is often seen as a Fan Coil Unit controller, but it is far more diverse and flexible than that. It should be considered within an overall system design as an integral part of your total solution.

The FW-28 can be programmed and live commissioned via free CPT Tools and an integrated HMTL5 dashboard. It has BACnet IP server/client, BACnet MSTP client (combination of BACnet MSTP client and BACnet IP client up to five devices total), newly introduced Modbus RTU support, to give us greater and increased functionality and two Ethernet ports for daisy chain connection wiring to the recommended standards. The FW series supports IT based standards and security protocols, and can be set up within a client's Wi-Fi network or set up as an isolated BMS Wi-Fi network as required. The FW-28 includes 12 UI (voltage and resistance), 4 AO (Voltage) and 8 DO with 24VAC Volt free contact relays. For floating control, the optional FR-02 module is available to add to the FW-28. The FW series products also feature Sox, TCom, P2P and BACnet communication protocols and MQTT.

THE DIMENSIONS.

104

230

UI1
COM
UI2
COM
UI3
COM
UI4
COM
UI5
COM
UI6
COM
UI7
COM
UI8
COM
UI9
COM
UI10
COM
UI11
COM
UI12
COM
UI13
COM
UI14
COM
UI15
COM
UI16
COM

H G NA
24VAC
DO1
DO2
DO3
DO4
DO5
DO6
DO7
DO8
AO1
COM
AO2
COM
AO3
COM
AO4
COM

PWR
ERR
STS
TXRX
DO1
DO2
DO3
DO4
DO5
DO6
DO7
DO8

RST
SVC

easyIO
FW-28

D+
D-
S
RS485

THE SPECIFICATIONS.

DETAILS:

Power Supply	24VAC +/- 5% or 24V DC +20%/-15%
Consumption	12VA
Current Rating	500mA at 24VAC/VDC
Storage temp	-20 to 85 oC (-4 to 185 oF)
Operating temp	0 to 65 °C (32 to 150 °F)
Operating humidity	10% to 90% Relative humidity non-condensing
Dimensions	230 x 104 x 44 mm (L x W x H)
Material	UL Approved
Weight	500g

CHARACTERISTICS:

Main Processor	Qualcomm 560Mhz
Processor	ARM Cortex 48 Mhz
Flash Memory	32MB
RAM	128MB
Ethernet	2 x Ethernet Port
WLAN	Wi-Fi b/g/n
RS 485 Ports	1 x RS485
Real Time Clock (RTC)	Real Time Clock with min 5 days backup by superCAP

THE SPECIFICATIONS.

INPUTS & OUTPUTS:

Universal Input	16xUI, 12-Bit ADC with PGA
	4 modes:
	Resistance mode: 500 to 500K Ohm
	Voltage mode: 0-10V (+/- 0.05V)
	Pulse count mode (max): 20 Pulse per sec at 50% duty cycle (20Hz)
	Digital: Voltage Free Contact
Digital output	8 x DO (with LED Indicator)
	Type: Relay Contacts, SPST NO, 48VA at 24V
Analog Output	4xAO, 12-Bit DAC
	Voltage Mode : 0-10V DC,
	Minimum Load Impedance 2,000 Ohm

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),
Ethernet	10Base-T/ 100Base-T interface, half or full duplex
WLAN	Wi-Fi 802.11 b/g/n

OPTIONAL ANTENNA'S.

There are two optional Wi-Fi antenna's for the EasyIO FW-series. They can extend the Wi-Fi signal of an FW controller, if it's, for example, mounted inside a panel.

- EIO-FW-ANT-1
  Single 3dBi antenna with cable and magnetic base
- EIO-FW-ANT-2
  Double 3dBi antenna with cable and magnetic base

KEY FEATURES.

- Support Modbus , Bacnet , tcom and sox protocol
- Modbus RTU Master (5 devices)
- BACnet Client IP / MSTP (5 devices)
- BACnet IP server
- SQLite up to 6000 records
- Email
- Dashboard (Freeboard)
- Support Network Time Protocol (NTP) client
- Built in web server with SSL certificate support. HTML5 compatible.

ASHRAE BACnet   Modbus   MQTT.ORG   {REST:API}

sedona   CPT   SQLite   HTML5   WiFi

PARTNER DETAILS.