

EasyIO FW-08V

8-POINT, WIFI CONTROLLER FOR VAV

The FW (WiFi) series supports IT network and security standards and WiFi b/g/n. This series can be used as part of an existing network or as an isolated BMS WiFi network. The dual Ethernet port capability allows for daisy chain capability within the recommended IT standards.

The FW series supports BACnet IP client/server, BACnet MSTP client, and Modbus RTU slave as well as Sox, TCOM, P2P and MQTT. The FW series also features HTML5-ready dashboards and can be programmed live via CPT. The FW-08V includes a built-in Pressure Pick-up Sensor for Air Flow Measurement used in VAV applications.

The FW-08V includes 4 UI and 4 AO. For floating control, add the optional FR-02 module. Input point capacity can be expanded with the EasyIO-FD-20i. Licenses and annual maintenance are included in the one-time cost of the controller.



FEATURE HIGHLIGHTS

- Pre-built VAV application with multi operation selection
- Pre-built VAV application built with BACnet variables making integration seamless
- Air Flow Balancing can be done via any HTML5 compatible web browser without any special tools
- BACnet, Modbus, TCOM and Sox protocol
- BACnet MSTP Client and BACnet IP Client up to 5 devices
- BACnet IP Server over WiFi or Ethernet
- Modbus RTU Master up to 5 devices
- EasyIO Peer to Peer Protocol, compatible with FS, FG+, FW and FT Series
- Built in web server, HTML5 compatible and SSL certificate support
- MQTT, RESTful API and other web services
- Built in dashboard
- WiFi Access Point, Repeater or Client Mode
- 2 Ethernet ports act as a normal network switch and support Ethernet daisy chain up to 9 units
- Network Time Protocol (NTP) Client
- SMTP protocol (outgoing email) with SSL authentication
- SQL Lite up to 6,000 records

SPECIFICATIONS

| | |
|---------------------------------|--|
| Power Supply | 24V AC +/- 5% or 24V DC +15% / - 15% |
| Consumption | 12VA |
| 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 |
| Dimensions | 136 x 104 x 44 (mm), 5.4 x 4.1 x 1.7 (inches) |
| Material | UL Approved |
| Weight | 350g / 12.4 oz |
| Main Processor | MIPS 580 MHz |
| Processor | ARM Cortex 48 MHz |
| Flash Memory | 32MB |
| RAM | 128MB |
| Ethernet | 2 x Ethernet Port, non-bridged 10Base-T/ 100Base-T interface, half or full duplex |
| WLAN | WiFi 802.1x b/g/n |
| RS 485 Ports | 1 x RS485 |
| Real Time Clock (RTC) | Real Time Clock with min 5 days backup by SuperCAP |
| Network Security Standard | IPv6, DHCP Client, SSL, TLS 1.2, 802.1x, WPA Enterprise |
| Database and API | MQTT, SQL Database and REST API |
| Protocols Supported | BACnet MSTP Client, BACnet IP Client/Server, Modbus RTU Master (Modbus mode will disable BACnet Client) |
| Email Service | SMTP protocol (outgoing email) with SSL authentication |
| Time Sync Protocol | Network Time Sync Protocol |
| 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 |
| Universal Inputs | 4 x UI , 12-bit ADC with PGA Resistance Mode : 500 - 500K Ohms (+/- 10 Ohms) Voltage Mode : 0-10V (+/- 0.05V) Pulse count mode (max): 20 Pulse per sec at 50% duty cycle (20Hz) Digital mode : Voltage Free Contact |
| Analog Output | 4 x AO, 12-bit DAC Maximum 5ma current draw |
| SKU | EasyIO-FW-08 EasyIO-FW-08-M (US only) |
| Optional | Remote Antenna FW-ANT-1 and FW-ANT-2 |
| Warranty | Yes, Ask your local representative |
| Certifications | CE, BTL, UL, FCC, RoHS |
| Engineer Tool | CPT |
| Product and Engineering License | Included |
| Annual Maintenance | Included |
| Contact | www.easyio.com |