

EasyIO FW-08V BUNDLE

WiFi CONTROLLER WITH ACTUATOR



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 has a Pressure Pick-up Sensor for Air Flow Measurement used in VAV applications.

The Bundle includes the EasyIO-8V and actuator. The actuator is connected with a standard modulating signal of DC 0...10 V and drives to the position defined by the positioning signal. Measuring voltage U serves for the electrical display of the damper position 0...100 % and as slave control signal for other actuators. Simple direct mounting on the damper spindle with a universal spindle clamp, supplied with an anti-rotation device prevents the actuator from rotating. The actuator is overload protected, requires no limit switches and automatically stops when the end stop is reached. (Adjustable angle of rotation with mechanical end stops.) Manual override with push-button possible (the gear is disengaged for as long as the button is pressed or remains locked).

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 0C (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 EasyIO Representative
Certifications	CE, BTL, UL, FCC, RoHS
Engineer Tool	CPT
Product and Engineering License	Included
Annual Maintenance	Included
Contact	www.easyio.com