EasyIO FW-14
14-POINT, WIFI CONTROLLER

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-14 includes 8 UI, 4 AO (Voltage) and 2 DO. 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

- 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

EasyIO®

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	**191 x 104 x 44 (mm), 7.5 x 4.1 x 1.7 (inches)**
Material	UL Approved
Weight	410g / 14.4 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	**8 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**
Digital Output	2 x DO (with LED Indicator) Type: Relay Contacts, SPST NO, 48VA/2A at 24V
Analog Output	4 x AO, 12-bit DAC Maximum 5ma current draw
SKU	**EasyIO-FW-14** **EasyIO-FW-14-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**