

# EasyIO FW-28

## 28-POINT, IP CONTROLLER



The FW (WiFi) series has the latest 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 network with WiFi. The dual Ethernet port allows for daisy chain capability within the recommended IT standards.

The FW series supports BACnet IP client/server, BACnet MSTP client/server, and Modbus TCP/RTU M/S, 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-28 includes 16 UI (voltage and resistance), 4 AO (Voltage) and 8 DO with 24VAC contact relays. For floating control, add the optional FR-02 module. Input point capacity can be expanded using the FD20i.

## FEATURE HIGHLIGHTS

- BACnet, Modbus, MQTT, TCom and Sox protocol
- BACnet MSTP Client and BACnet IP Client up to 5 devices
- BACnet IP Server over Wi-Fi or Ethernet
- BACnet MS/TP server
- Modbus TCP and RTU Master up to 5 devices
- EasyIO Peer to Peer Protocol, compatible with FS, FG+, FW and FT Series
- Built-in HTML5 web server and SSL certificate support
- 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 chains up to 9 units or up to 30 units when using Spanning Tree Protocol and connected in a ring
- Network Time Protocol (NTPv4) Client
- SMTP protocol (outgoing email) with SSL authentication
- SQL Lite up to 6,000 records



# SPECIFICATIONS

<b>Power Supply</b>	<b>24V AC +/- 5% or 24V DC +20%/-15%</b>
Consumption	12VA
Current Rating	500mA at 24VAC/VD
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 non-condensing
<b>Dimensions</b>	<b>230 x 104 x 44 (mm), 9.1 x 4.1 x 1.7 (inches)</b>
Material	Plastic conforms with UL
Weight	500g / 17.6 oz
<b>Main Processor</b>	<b>Qualcomm 560Mhz</b>
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 Spanning Tree Protocol (Spanning Tree Protocol disables Wi-Fi)
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 1.3, 802.1x, WPA Enterprise
Database and API	SQL database and REST API
<b>Protocols Supported</b>	<b>BACnet IP client/server, BACnet MSTP client/server, Modbus TCP/RTU M/S (Modbus Master disables BACnet Client), TCOM, web services, HTML5, SOX</b>
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, 76.8K
<b>Universal Inputs</b>	<b>16 x UI , 12-bit ADC with PGA 4 Modes 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)</b>
Digital Mode	Voltage Free Contact
Digital Output	8 x DO (with LED Indicator), Type: Relay Contacts, SPST NO, 48VA at 24V
Analog Output	4 x AO, 12 bit DAC Voltage mode: output range 0-10V DC, Min Load Impedance 2,000 Ohm Maximum 5ma current draw
<b>SKU</b>	<b>EasyIO-FW-28</b>
Warranty	Yes, ask your local EasyIO representative
Certification	CE, BTL, UL, FCC, RoHS
Engineer Tool	CPT
Product and Engineering License	Included
<b>Contact</b>	<b>www.easyio.com</b>