

EasyIO FG-32+

32-POINT, IP CONTROLLER

A versatile plant controller, meter and data aggregator, the FG+ series has a 400 MHz Main Processor and a SD Card to maximize speed and storage. The FG+ series can be programmed live with CPT and interfaces directly to cloud services without an additional gateway or server.

Like the FS series, FG+ supports multiple, concurrent protocols BACnet, Modbus, TCOM, and web services. Utilize CPT kits, adapter widgets and graphics, import your own or develop applications specific to your needs. With HTML5, PHP, and SQL, the FG+ is mobile ready and adaptable for integration, interoperability, and data management.

The FG-32+ has 8 UO, 16 UI, and 8 DO. Licenses and annual maintenance are included in the one-time cost of the controller.



FEATURE HIGHLIGHTS

- Memory card expansion for history and application backup and storage
- Supports BACnet MSTP Client/Server, BACnet IP Client/Server, Modbus RTU M/S, Modbus TCP M/S, TCOM, SOX
- EasyIO Peer to Peer Protocol, compatible with FS, FG+, FW and FT Series
- Built in web server with HTML5 compatibility
- RESTful API and other web services
- Network Time Protocol (NTP) Client
- SMTP protocol (outgoing email)
- SQL Lite up to 100,000 records
- Built in dashboard
- Supports simultaneous, multiple protocols without additional license fees
- Expansion capability with EasyIO-FD-20i or EasyIO-FC-20
- EasyIO Sedona Library for Logging, Control, Scheduling and Remote Management

SPECIFICATIONS

Power Supply	24V AC +/- 5% or 24V DC +20% / - 15%
Consumption	18VA
Current Rating	750mA 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	234 x 104 x 44 (mm), 9.2 x 4.1 x 1.7 (inches)
Material	Plastic conforms with UL
Weight	800g / 28.2 oz
Main Processor	ARM 400 MHz
Processor	ARM Cortex 72 MHz
Flash Memory	128MB
RAM	64MB
SD card Holder	Yes
Ethernet	1 x Ethernet Port 10Mb/100Mb 10Base-T/100Base-T interface, half or full duplex
RS 485 Ports	2 x RS485
Real Time Clock (RTC)	Real Time Clock with min. 5 days backup by SuperCAP
Power Failure Protection	SuperCap Apps Safety Backup
Database and API	SQL database and REST API
Protocols Supported	BACnet MSTP Client/Server, BACnet IP Client/Server, Modbus RTU M/S, Modbus TCP M/S, TCOM, web services, HTML5, SOX
Email Service	SMTP protocol (outgoing email)
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
Universal Inputs	16 x UI , 12-bit ADC with PGA Resistance Mode : 500 - 500K Ohms (+/- 10 Ohms) Voltage Mode : 0-10V (+/- 0.05V) Current mode: 0-20mA DC (+/- 0.01 mA) Impedance < 25 Ohms Pulse count mode (max): 20 Pulse per sec at 50% duty cycle (20Hz) Digital mode : Voltage Free Contact
Digital Output	8 x DO (with LED Indicator) Type: Relay Contacts, SPST NO, 48VA/2A at 24V
Universal Output	8 x UO, 12-bit DAC Voltage mode: output range 0-10V DC, Min Load Impedance 1,000 Ohm Maximum 10ma current draw Current mode: 0-20mA, Max Load Impedance 800 Ohm. Digital mode: maximum sinking current 200mA (for Switching Relays)
SKU	EasyIO-FG-32+
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