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. The FG+ is mobile ready after HTML5 with, PHP, SQL allow unmatched flexibility for integration, interoperability and/or 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.





- Memory card expansion for history and application backup and storage
- Supports BACnet MSTP Client/Server, BACnet IP Client/Server, Modbus RTU Master/Slave, Modbus TCP Master/Slave, 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, EasyIO-FC-20 or EasyIO-FT-04
- EasyIO Sedona Library for Logging, Control, Scheduling and Remote Management



SPECIFICATIONS

Consumption 18VA Current Rating 750mA 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 234 x 104 x 44 (mm), 9.2 x 4.1 x 1.7 (inches) Material UL Approved Weight 800g / 28.2 oz Main Processor ARM 400 MHz Processor ARM 400 MHz Processor ARM 400 MHz SD card Holder Yes Ethemet 108868-T 100Base-T	Power Supply	24V AC +/- 5% or 24V DC +20% / - 15%
Current Rating750mA at 24VAC/VDCStorage Temp-20 to 85 oC (-4 to 185 oF)Operating Temp0 to 65 0C (32 to 150 oF)Operating Humidity10% to 90% Relative Humidity noncondensingDimensions234 x 104 x 44 (mm), 9.2 x 4.1 x 1.7 (inches)MaterialUL ApprovedWeight800g / 28.2 ozMain ProcessorARM 400 MHzProcessorARM Cortex 72 MHzFlash Memory128MBRAM64MBSD card HolderYesEthernet10Base-T/ 10Mb/100MbTuBase-T/ 100Base-T interface, half or full duplexRS 485 Ports2 x RS485Real Time Clock (RTC)Real Time Clock with min. 5 days backup by SuperCAPPower Failure ProtectionSuperCap Apps Safety BackupDatabase and APISQL database and REST APIProtocols SupportedShore ProtocolModus Baud RateSpeed : (9.6K, 19.2k, 38.4K, 57.6K), Data Bits : 8, Parity : 0dd, Even, NoneBACnet Baud RateSpeed : (9.6K, 19.2k, 38.4K, 57.6K), Data Bits : 8, Parity : 0dd, Even, NoneBACnet Baud RateSpeed : (9.6K, 19.2k, 38.4K, 57.6K), Data Bits : 8, Parity : 0dd, Even, NoneBACnet Baud RateSpeed : (9.6K, 19.2k, 38.4K, 57.6K), Data Bits : 8, Parity : 0dd, Even, NoneBACnet Baud RateSpeed : (9.6K, 19.2k, 38.4K, 57.6K), Data Bits : 8, Parity : 0dd, Even, NoneBACnet Baud RateSpeed : (9.6K, 19.2k, 38.4K, 57.6K), Data Bits : 8, Parity : 0dd, Even, NoneBACnet Baud RateSpeed : (9.6K, 19.2k, 38.4K, 57.6K), Data Bits : 8, Parity : 0dd, Even, NoneBACnet Baud RateSpeed : (9.6K, 19		
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Protocols SupportedBACnet MSTP Client/Server, BACnet IP Client/Server, Modbus RTU Master/ Slave, Modbus TCP Master/Slave, TCOM, web services, HTML5, SOXEmail ServiceSMTP protocol (outgoing email)Time Sync ProtocolNetwork Time Sync ProtocolModbus Baud RateSpeed : (9.6K, 19.2k, 38.4K, 57.6K), Data Bits : 8, Parity : Odd, Even, NoneBACnet Baud RateSpeed : 9.6K, 19.2k, 38.4KEthernet10Base-T/ 100Base-T interface, half or full duplexI f & 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 ContactDigital Output8 x DO (with LED Indicator) Type: Relay Contacts, SPST NO, 48VA/2A at 24VUniversal Output8 x UD, 12-bit DAC Voltage mode: output range 0-10V DC, Min Load Maximum 10ma current draw Impedance 1,000 Ohm. Digital mode: "Co20mA, Max Load Impedance 800 Ohm. Digital mode: "Co20mA, Max Load Impedance 800 Ohm. Digital mode: Cremt mode: 0-20mA, Max Load Impedance 800 Ohm. Digital mode: Cremt mode: 0-20mA, Max Load Impedance 800 Ohm. Digital mode: The SayIO-FG-32+WarrantyYes, Ask you local EasyIO RepresentativeCertificationsCE, BTL, UL, FCC, RoHSEngineer ToolCPTProduct and Engineering LicenseIncludedAnnual MaintenanceIncluded	Power Failure Protection	SuperCap Apps Safety Backup
Protocols supportedSlave, Modbus TCP Master/Slave, TCOM, web services, HTML5, SOXEmail ServiceSMTP protocol (outgoing email)Time Sync ProtocolNetwork Time Sync ProtocolModbus Baud RateSpeed : (9.6K, 19.2k, 38.4K, 57.6K), Data Bits : 8, Parity : Odd, Even, NoneBACnet Baud RateSpeed : 9.6K, 19.2k, 38.4K, 57.6K), Data Bits : 8, Parity : Odd, Even, NoneBACnet Baud RateSpeed : 9.6K, 19.2k, 38.4KEthernet10Base-T/ 100Base-T interface, half or full duplexInversal Inputs16 x UI, 12-bit ADC with PGA Resistance Mode : 500 - 500K Ohms (+/- 10 Ohms) Voltage Mode : 0-10V (+/- 0.05V) Current mode: 0-20m AD C (+/- 0.01 mA) Impedance < 25 Ohms Pulse count mode (max): 20 Pulse per sec at 50% duty cycle (20Hz) Digital mode : Voltage Free ContactDigital Output8 x D0 (with LED Indicator) Type: Relay Contacts, SPST NO, 48VA/2A at 24VUniversal Output8 x U0, 12-bit DAC Voltage mode: output range 0-10V DC, Min Load Maximum 10ma current draw Impedance 1,000 Ohm. Digital mode: "Current mode: 0-20mA, Max Load Impedance 800 Ohm. Digital mode: maximum sinking current 200mA (for Switching Relays)SKUEasyl0-FG-32+WarrantyYes, Ask you local Easyl0 RepresentativeCertificationsCE, BTL, UL, FCC, RoHSEngineer ToolCPTProduct and Engineering LicenseIncludedAnnual MaintenanceIncluded	Database and API	SQL database and REST API
Time Sync ProtocolNetwork Time Sync ProtocolModbus Baud RateSpeed : (9.6K, 19.2k, 38.4K, 57.6K), Data Bits : 8, Parity : Odd, Even, NoneBACnet Baud RateSpeed : 9.6K, 19.2k, 38.4KEthernet10Base-T/ 100Base-T interface, half or full duplexIniversal Inputs16 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 Puise count mode (max): 20 Puise per sec at 50% duty cycle (20Hz) Digital mode : Voltage Free ContactDigital Output8 x D0 (with LED Indicator) Type: Relay Contacts, SPST NO, 48VA/2A at 24VUniversal Output8 x U0, 12-bit DAC Voltage mode: output range 0-10V DC, Min Load Maximum 10ma current draw Impedance 1,000 Ohm. Current mode: 0-20mA, Max Load Impedance 800 Ohm. Digital mode: maximum sinking current 200mA (for Switching Relays)SKUEasyl0-FG-32+WarrantyYes, Ask you local Easyl0 RepresentativeCertificationsCE, BTL, UL, FCC, ROHSEngineer ToolCPTProduct and Engineering LicenseIncludedAnnual MaintenanceIncluded	Protocols Supported	
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BACnet Baud RateSpeed : 9.6K, 19.2k, 38.4KEthernet10Base-T/ 100Base-T interface, half or full duplexUniversal InputsIf a 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 OutputDigital Output8 x DO (with LED Indicator) Type: Relay Contacts, SPST NO, 48VA/2A at 24VUniversal Output8 x U0, 12-bit DAC Voltage mode: output range 0-10V DC, Min Load Maximum 10ma current draw Impedance 1,000 Ohm. Current mode: 0-20mA, Max Load Impedance 800 Ohm. Digital mode: maximum sinking current 200mA (for Switching Relays)SKUEasyIO-FG-32+WarrantyYes, Ask you local EasyIO RepresentativeCertificationsCE, BTL, UL, FCC, RoHSEngineer ToolCPTProduct and Engineering LicenseIncludedAnnual MaintenanceIncluded	Time Sync Protocol	Network Time Sync Protocol
Ethernet10Base-T/ 100Base-T interface, half or full duplexUniversal Inputs16 x UI, 12-bit ADC with PGA Resistance Mode : 500 - 500K Ohms (+/- 10 Ohms) Voltage Mode : 0-10V (+/- 0.05V) Current mode: 0-20M ADC (+/- 0.01 mA) Impedance < 25 Ohms Pulse count mode (max): 20 Pulse per sec at 50% duty cycle (20Hz) Digital mode : Voltage Free ContactDigital Output8 x D0 (with LED Indicator) Type: Relay Contacts, SPST NO, 48VA/2A at 24VUniversal Output8 x U0, 12-bit DAC Voltage mode: output range 0-10V DC, Min Load Maximum 10ma current draw Impedance 1,000 Ohm. Current mode: 0-20MA, Max Load Impedance 800 Ohm. Digital mode: 0-20MA, Max Load Impedance 800 Ohm. Digital mode: 0-20MA, Max Load Impedance 800 Ohm. Digital mode: 0-20MA, Max Load Impedance 800 Ohm. Current mode: 0-20MA, Max Load Impedance 800 Ohm. Current mode: 0-20MA, Max Load Impedance 800 Ohm. Current mode: 0-20MA, Max Load Impedance 800 Ohm. Digital mode: maximum sinking current 200mA (for Switching Relays)SKUEasyl0-FG-32+WarrantyYes, Ask you local Easyl0 RepresentativeCertificationsCF, BTL, UL, FCC, RoHSEngineer ToolCPTProduct and Engineering LicenseIncludedAnnual MaintenanceIncluded	Modbus Baud Rate	Speed : (9.6K, 19.2k, 38.4K, 57.6K) , Data Bits : 8 , Parity : Odd, Even, None
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Universal InputsResistance 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 ContactDigital Output\$ x D0 (with LED Indicator) Type: Relay Contacts, SPST NO, 48VA/2A at 24VUniversal Output\$ x U0, 12-bit DAC Voltage mode: output range 0-10V DC, Min Load Maximum 10ma current draw Impedance 1,000 Ohm. Current mode: 0-20mA, Max Load Impedance 800 Ohm. Digital mode: maximum sinking current 200mA (for Switching Relays)SKUEasyl0-FG-32+WarrantyYes, Ask you local Easyl0 RepresentativeCertificationsCE, BTL, UL, FCC, RoHSEngineer ToolCPTProduct and Engineering LicenseIncludedAnnual MaintenanceIncluded	Ethernet	10Base-T/ 100Base-T interface, half or full duplex
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WarrantyYes, Ask you local EasyIO RepresentativeCertificationsCE, BTL, UL, FCC, RoHSEngineer ToolCPTProduct and Engineering LicenseIncludedAnnual MaintenanceIncluded	Universal Output	Voltage mode: output range 0-10V DC, Min Load Maximum 10ma current draw Impedance 1,000 Ohm. Current mode: 0-20mA, Max Load Impedance 800 Ohm.
CertificationsCE, BTL, UL, FCC, RoHSEngineer ToolCPTProduct and Engineering LicenseIncludedAnnual MaintenanceIncluded	SKU	EasyIO-FG-32+
Engineer Tool CPT Product and Engineering License Included Annual Maintenance Included	Warranty	Yes, Ask you local EasyIO Representative
Product and Engineering License Included Annual Maintenance Included	Certifications	CE, BTL, UL, FCC, RoHS
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