

# EasyIO Controller

32 Points

EASYIO-FG-32+



The new FG+ series of Open Automation Controllers from EasyIO are the new range of Internet ready Field Controllers. They comprise of combined Area Controller capabilities and features, as well built in I/O and huge data logging capacity, all packaged as the future solution for the Internet of things in Energy and Building Facility Control. The controller also supports multi concurrent protocols and services such as BACnet, Modbus, TCOM, Web Services and both Server and Client services.

This new range complies with the 'Internet of Things' by interfacing directly to Cloud Services, without an additional Gateway or Server. To power the application, the FG+ has a dual ARM processor engine, and also a built-in Web Server (HTML5, PHP, SQL).

The FG+ series change the way that we will deploy Building Automation, especially in multiple Facilities and locations whereby a starter package can be deployed quickly, and cost effectively, without any additional hardware or middleware. We see this range of FG+ Controllers allowing us and the industry to extend their reach deeper and wider into all kinds of Energy Performance Solutions. Ranging from Retail Stores, Schools, and Residential, Smart Grid and so on.

Another exciting feature, is the openness, and its web friendly tools to enable 3rd Party Tools to be deployed in addition to the Workbench that we are all familiar with today. This platform will meet the needs of simple controls requirements and complex HVAC plants, such as Chiller Sequencing and Roof Top Control. Truly a welcome change!

## Specification:

Power Supply	24V AC +/- 5% or 24V DC +20%/-15%
Consumption	18VA
Current Rating	750mA at 24VAC/VDC
Operating temp	0 to 65 °C (32 to 150 °F)
Storage temp	-20 to 65 °C (-4 to 150 °F)
Operating humidity	10% to 95% relative humidity non-condensing
Dimensions	233 x 124 x 44 mm (9,2 x 4,9 x 1,7 inch)
Material	UL Approved Plastic
Weight	800g

## Inputs & Outputs:

Universal Input	16xUI 5 modes: <b>Digital mode:</b> voltage free contact input. <b>Resistance mode:</b> input range 500-500 KOhm. <b>Voltage mode:</b> input range 0-10V <b>Current mode:</b> input range 0-20mA. <b>Pulse count mode:</b> maximum pulse frequency: 20Hz 8xDO (with LED's for status) <b>Relay</b> output with contact rating 1A 30VDC
Digital output	8xUO
Universal Output	3 modes: <b>Voltage mode:</b> output range 0-10V. <b>Current mode:</b> output range 0-20mA. <b>Digital mode:</b> maximum sinking current 200mA.

## Communication:

Physical Interface 1 & 2 (Port 1 & 2)	EIA-485 (BUS A,B) Two-wire, Half Duplex
Modbus Baud Rate	Speed: (9.6K, 19.2k, 38.4K, 57.6K, 115.2K bit/s), Data Bit: (8 bits), Parity: (None, Even, Odd)
BACnet Baud Rate	Speed: (9.6K, 19.2k, 38.4K), Data Bit: (8 bits), Parity: (None)
Ethernet Support	IP, TCP, UDP, ICMP, HTTP, FTP
Application Support	Sox, TCOM driver, Modbus, BACnet



All specifications subject to change without notice or liability to provide changes to prior purchasers, information and specifications published here are current as of the date of publication of this document. EasyIO Europe B.V. reserves the right to change or modify specifications without prior notice. The latest product specifications can be found by contacting us.

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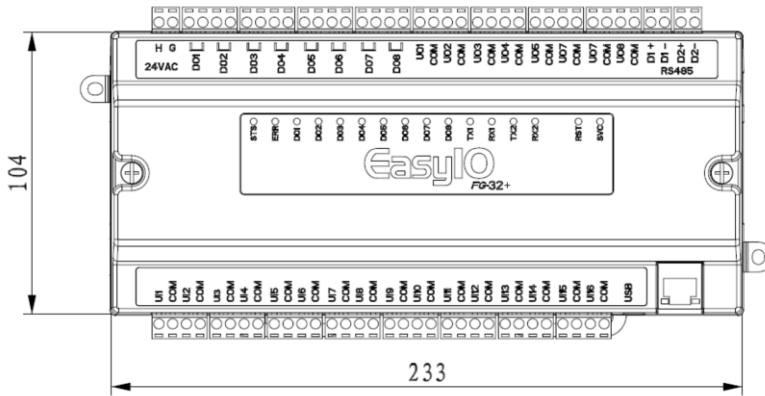
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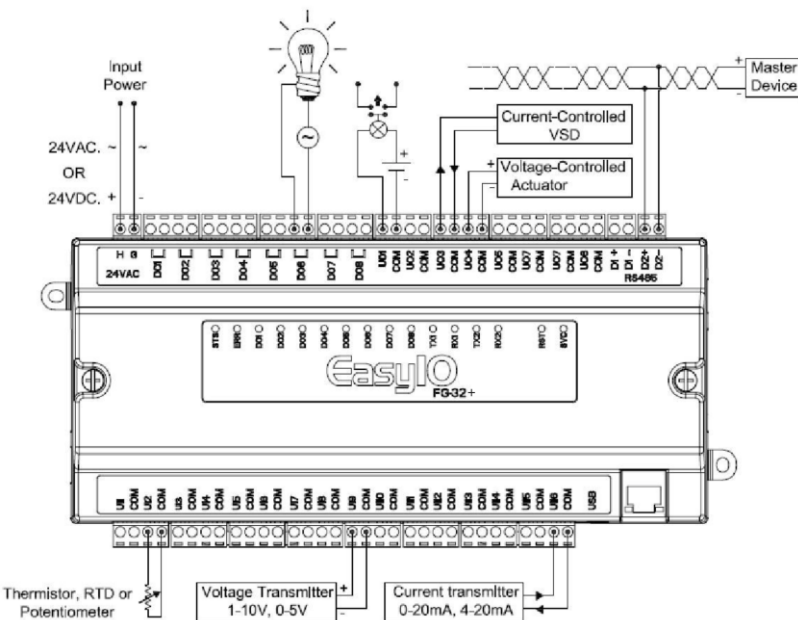
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## Dimensions:



## Wiring Diagram:

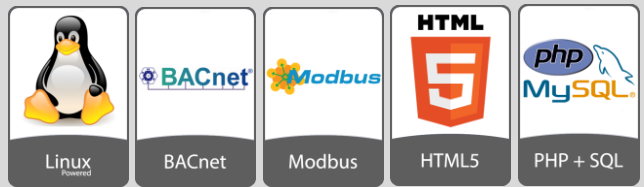


## Features:

- Power! – 2 ARM processors, main processor increased to 400 MHz
- Memory/Storage – SD Card and massive history storage
- Supports BACnet, TCOM, Modbus and Web Services
- Fills a Gap in the market, between an Area controller and the EasyIO 30P controller
- HTML5 Graphics! – iPad friendly

## Characteristics:

- ARM 9 400MHz main processor
- ARM Cortex-M3 processor for the I/O
- 64Mbyte RAM
- 128Mbyte NAND Flash
- 8G SD card built-in for Histories and Graphics
- 1 x 10/100 Ethernet Port
- 1 x Mini USB
- 2 x RS485
- Real Time Clock
- SuperCap Apps Safety Backup
- 24V AC/DC Power
- 16 x UI
- 8 x DO/LED for Status
- 8 x UO (200mA sink for Switching Relays)
- Remote Flash Upgrades
- HTML5 Web Server on Board!



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