EasyIO Controller
20 points
EasyIO-FG-20+

The EasyIO FG+ series of Sedona controllers are freely programmable, internet ready field controllers. They support multi concurrent protocols and services such as BACnet, Modbus, TCOM, web services and both server and client services. Besides that, they can be programmed live, with free software CPT Tools.

The range complies with the Internet of Things by interfacing directly to clous services, without an additional gateway or server. To power the application, the FG+ series have a dual ARM processor engine and also a built-in web server (HMTL5, PHP, SQL).

Another exciting feature, is the openness, and its web friendly tools to enable third party tools to be deployed in addition to the workbench that we are all familiar with today. This platform meets the needs of simple control requirements and complex HVAC plants, such as chiller sequencing and roof top control.

The FG+ series change the way Building Automation is deployed. Especially in multiple facilities and locations where a starter package can be deployed quickly, and cost effectively, without any additional hardware or middleware.

This range of FG+ controllers allows the industry to extend their reach deeper and wider into all kinds of energy performance solutions. Ranging from retail stores, schools, residential, hospitals, smart grid and so on.

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	215 x 124 x 44 mm (8,5 x 4,9 x 1,7 inch)
Material	UL Approved Plastic
Weight	436g

Inputs & Outputs:

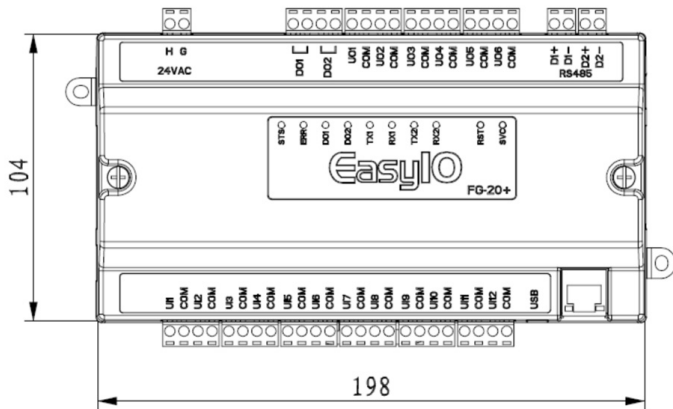|	
Universal Input	12xUI
	5 modes:
	Digital mode:
	voltage free contact input.
	Resistance mode:
	input range 500-500 KOhm.
	Voltage mode: input range 0-10V
	Current mode: input range 0-20mA.
	Pulse count mode:
	maximum pulse frequency: 20Hz
Digital output	2xDO (with LED's for status)
	Relay output with
	contact rating 1A 30VDC
Universal Output	6xUO
	3 modes:
	Voltage mode: output range 0-10V.
	Current mode: output range 0-20mA.
	Digital mode:
	maximum sinking current 200mA.

Communication:

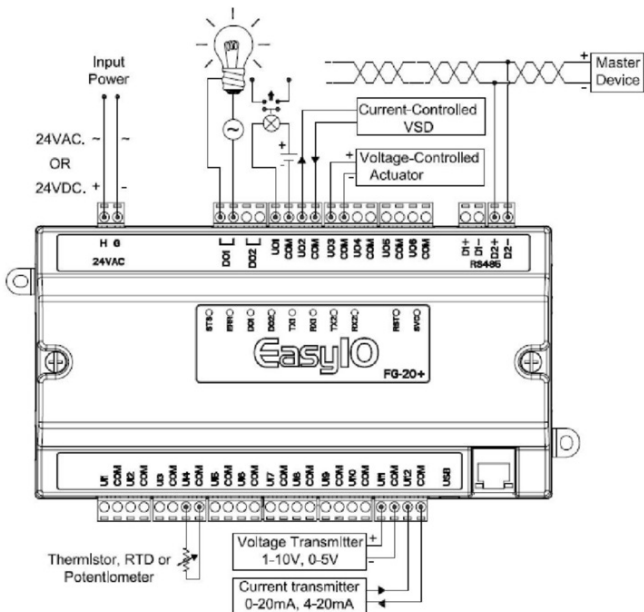|	
Physical Interface 1 & 2 (Port 1 & 2)	EIA-485 (BUS A,B) Two-wire, Half Duplex
Modbus Baud Rate	Speed: (9.6K, 19.2k, 38.4K, 57.6K, 115.2K bit/s), Data Bit: (8 bits), Parity: (None, Even, Odd)
BACnet Baud Rate	Speed: (9.6K, 19.2k, 38.4K, 76.8K), Data Bit: (8 bits), Parity: (None)
Ethernet Support	IP, TCP, UDP, ICMP, HTTP, FTP
Application Support	Sox, TCOM driver, Modbus, BACnet

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Features:
- Power! – 2 ARM processors
- Memory/Storage – SD Card and massive history storage
- Supports BACnet, TCOM, Modbus and Web Service
- 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
- 1x 10/100 Ethernet Port
- 1x Mini USB
- 2x RS485
- Real Time Clock
- SuperCap Apps Backup
- 24V AC/DC Power
- Hardware Security ID
- 12x Universal inputs
- 2x Digital outputs with LED for status
- 6x Universal outputs (200mA sink for switching relays)
- Remote Flash Upgrades
- HTML5 Web Server on board!

Dimensions

Wiring Diagram

sedona
FRAMEWORK™
Sedona Framework

Linux Powered	BACnet	Modbus	HTML5	PHP + SQL

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