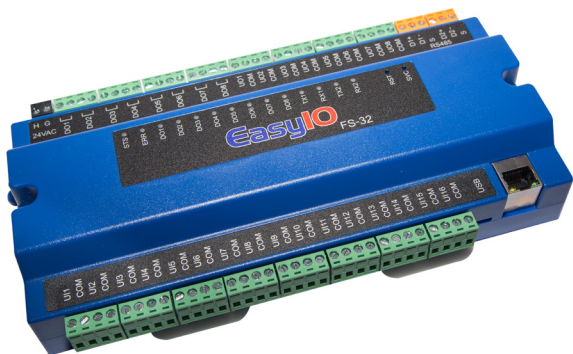# EasyIO Controller
32 points
EasyIO-FS-32

The EasyIO-FS-32 is a high performance server class controller with a 1.2 Ghz quad core processor, 512 MB RAM and 8GB flash memory. Its software capabilities are very powerful with HTML5 graphics and multifunctional adapter widgets. The built-in VPN client and server (in development) makes your connectivity safe and unique for BMS controllers.

And of course, the EasyIO-FS-32 has and can do everything you expect from an EasyIO controller: it's freely and live programmable via CPT Tools, it supports protocols and services such as BACnet, Modbus, Sox, Haystack and TCOM and it has a built-in HTML5 web server.

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:

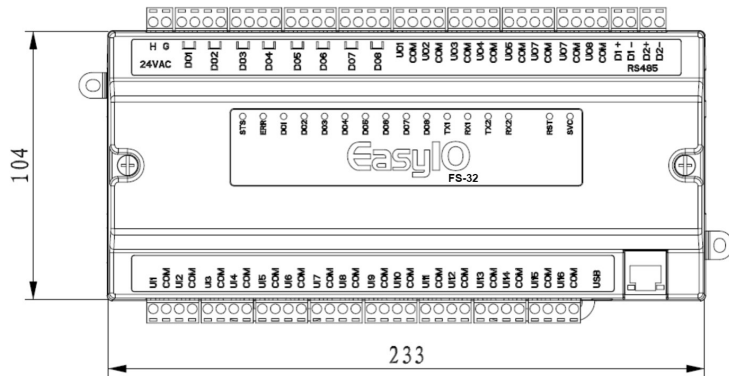|	
Universal Input	16xUI
	12-Bit ADC (with PGA)
	5 modes:
	Digital mode:
	voltage free contact input.
	Resistance mode:
	input range 500 - 500 KOhm.
	Voltage mode: input range 0-10V
	Current mode: input range 0-20mA.
	Pulse count mode:
	maximum pulse frequency: 20Hz
Digital output	8xDO (with LED's for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

Communication:

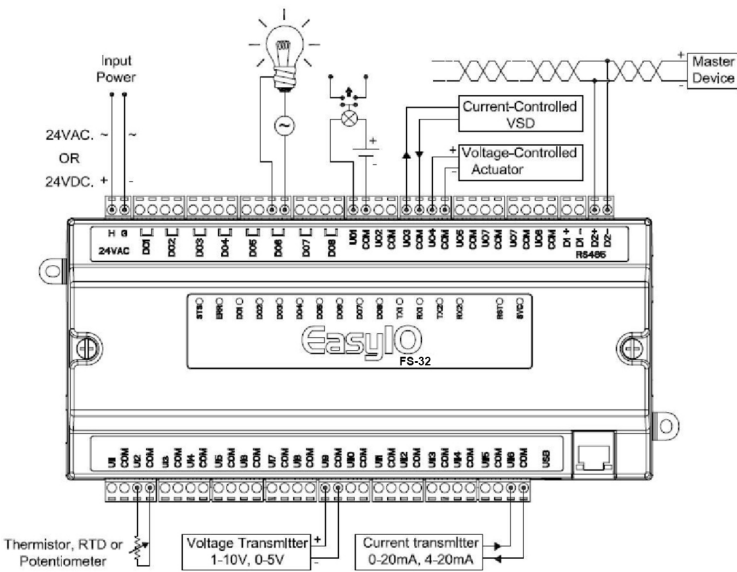|	
Physical Interface 1 & 2 (Port 1 & 2)	EIA-485 (BUS A,B) Two-wire, Half Duplex
Modbus Baud Rate	Speed: (9.6K, 19.2k, 38.4K, 57.6K, 115.2K bit/s), Data Bit: (8 bits), Parity: (None, Even, Odd)
BACnet Baud Rate	Speed: (9.6K, 19.2k, 38.4K,78.6K), Data Bit: (8 bits), Parity: (None)
Ethernet Support	IP, TCP, UDP, ICMP, HTTP, FTP
Application Support	Sox, TCOM, Modbus, BACnet, Haystack

CE

EasyIO Controller
32 points
EasyIO-FS-32

Features:

- Power! – 2 processors, main processor increased to 1.2 Ghz Quad Core
- Memory/Storage – 8GB EMMC on board and massive history storage
- Supports BACnet, TCom, Modbus, Haystack and web services
- Built-in VPN client and server (in development)
- Programmable gain amplifiers for all UI channels for higher precision at lower range.
- Nginx Web Server Engine with latest features

Characteristics:

- 1.2 Ghz Quad Core ARM A7 main processor
- 48 Mhz ARM Cortex-M0 processor for the I/O
- 512MB Gbyte RAM
- 8GB NAND Flash
- SD card holder
- 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

Dimensions

Wiring Diagram

Project Haystack — Haystack

Linux (Powered) | BACnet | Modbus | HTML5 | PHP + SQL

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