

EasyIO Controller 30 points EasyIO-30P



The EasyIO-30P controllers are rugged, network centric, multi-protocols Input / Output controllers to accommodate general and specific applications, featuring Bacnet IP, Bacnet Ethernet, Bacnet MSTP, Modbus Serial (RS485) and Modbus TCP/IP protocols. It also has a built-in web server for easy configuration.

The EasyIO-30P supports the newest Sedona Framework, which is the industry's first, open source development framework that provides a complete software platform for developing, deploying, integrating, and managing pervasive device applications at the lowest level. The Sedona Framework distributes decision making control and manageability to any device and brings intelligence and connectivity to the network edge and back. A system integrator is able to develop his own applications based on the Sedona Framework.

The built-in web server enables configuration with popular web browser over an Ethernet connection. The I/O status can also be monitored over the internet connection.

Multiple serial communication (RS485) speed selection from 9.6kbps to 115.2kbps. Supports Ethernet 10Base-T/100Base-T interface, half or full duplex.

The controller can be configured as bridge controller providing a network bridge for Ethernet and serial communication (RS485) via built-in protocol converter (for Modbus only). This will reduce wiring cost, simplify network implementation and significant cost.

Specification:

Power Supply	24VAC, 7VA max, or 20 ~ 34VDC
Consumption	12VA
Current Rating	500mA max @ 24VDC
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	187 x 110 x 47 mm (L x W x H)
Weight	600g

Inputs & Outputs:

Universal input	8x Voltage: 0-10V (+/- 0.005V), 0-5V (+/- 0.003V) voltage free contact input. Current: 0-20mA (+/- 0.01 mA) Resistance: 0-30K (+/- 10 Ohm), 0-10K (+/- 5 Ohm), 0-1.5K (+/- 1 Ohm) Thermistor: 10K, 10K Shunt, 1K Platinum: All (+/-0.01 °C)
Digital input	8x Type: Voltage free Limit: +5V at 500 Ohm Resistance maximum
Digital output	8x Type: Relay contacts, SPST NO, 48VA at 24VAC, Pilot Duty
Transistor output	2x Type: Open Collector output, Isolation 3,75KV
Analogue output	4x (12-bits resolution) Type: Current: 0-20mA, Voltage: 0-10V

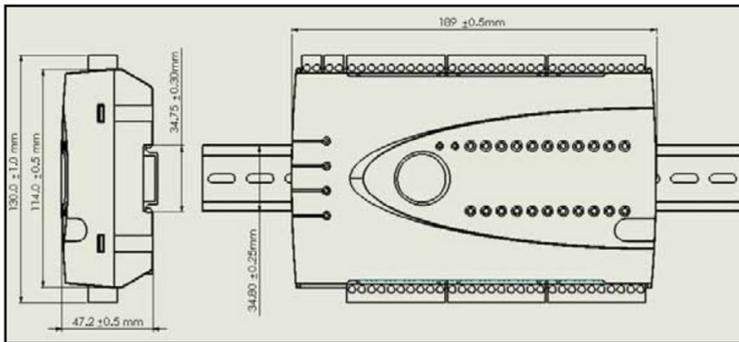
Communication:

Physical Interface 1	EIA-485 (BUS A,B) Two-wire, Half Duplex Baud Rate: Speed: (9,6K, 19,2k, 38,4K, 115,2K bit/s) Data Bit: 8-bits Parity: None, Even, Odd Protocol: Bacnet MSTP, Modbus Serial
Physical Interface 2	Ethernet 10/100 Base-T Ethernet Support: IP, TCP, UDP, ICMP, IGMP, FTP, HTTP Application Support: Bacnet IP, Bacnet Ethernet, Modbus TCP and Sedona Sox

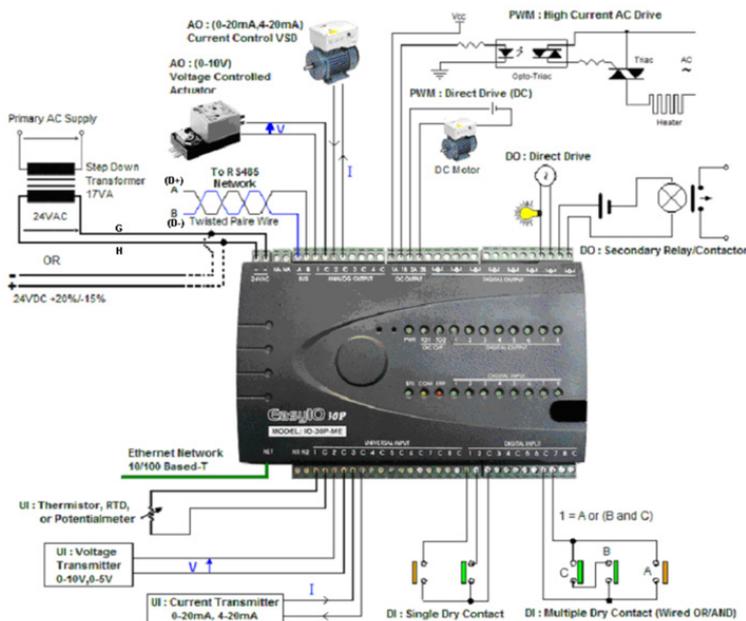
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Dimensions



Wiring Diagram



Device ID:

Complementing existing standard protocols, EasyIO-30P can be uniquely identified over the network. This facilitating online network device search and simplify reconfiguration.

Network security:

All configurations changes are protected via password setting, either through standard network protocol access (Modbus) or web browser.

Multiple input/output type:

The controller has eight digital inputs, eight analogue input for current, voltage, resistance and temperature sensor, eight digital outputs (relay), four analogue output (current and voltage), and two isolated open collector outputs (with PWM control) for high speed switching.

High accuracy analogue channels:

High speed 14-bits A.D converter with programmable gain amplifier yields a high resolution and accuracy reading on analogue input points. 12-bits D/A provides more accurate analogue output control.

Online help/information:

All related information/helps are available through the controller web server, information such as registers details, wiring diagram, device specification and etc are provided to assist the user.

Status indicator:

Operational activity on each individual channel of DI, DO and Open Collector Outputs (PWM) are conveniently indicated by LED, so as the power, operation, communication and faults status.

Characteristics:

- 96Mhz Processor
- 2Mb Nor Flash
- 8Mb SDRAM
- Real Time Clock
- 8 universal inputs
- 8 digital inputs
- 8 digital outputs
- 2 transistor outputs
- 4 analogue outputs

