

New! - Faster Processor

EasyIO®

POWERED BY
SEDONA
FRAMEWORK™

32 bit EasyIO-30P-SF45-V2

Overview

The EasyIO-30P-SF Controllers are rugged, network centric, high performance 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 plus a built-in Web server for easy configuration. Now, EasyIO-30P supports **Sedona Framework™** which provides complete software platform for developing, deploying, integrating, and managing device applications at the lowest level.

Sedona Framework™
Bacnet® IP, Ethernet, MSTP
Modbus RS485, TCP/IP
Web-enabled, Network Centric



Features:

➤ Sedona Framework™

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. Now, system integrator is able to develop their own application based on the Sedona Framework™.

➤ Web Browser Configuration

Built-in Web server enables configuration with popular web browser over an Ethernet connection. I/O status can be monitored over the Internet connection.

➤ High-Speed Data Rates

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

➤ As Bridge Controller

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

➤ 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

➤ 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

➤ High Accuracy Analogue Channels

High speed 14-bits A/D converter with programmable gain amplifier yields a high resolution and accuracy reading on 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.

➤ Reset

A Reset Switch has been provided for system reset without power removal (Warm Start operation).

➤ Online Firmware Upgrade/Configuration

The controller firmware can be upgraded either through RS485 or Ethernet connection. Network communication and operation parameters can be changed via RS485/Ethernet with the built-in boot-loader and terminal program.

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EasyIO-30P-SF45-V2

Device Specifications	
ARM Cortex M3, 96MHz, Sedona App + kit file 1Mb 32 bit	
Power Supply: 24VAC, 3.6VA max, or 20 ~ 34VDC	
Consumption: 150mA max @ 24VDC	
Operating Temperature: 32° to 150° F (0° to 65° C)	
Storage Temperature: -4° to 150° F (-20° to 65° C)	
Operating Humidity: 10% to 95% relative humidity non-condensing	
Communication	
Physical Interface 1 (Port 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)
-	Application Protocol: Bacnet MSTP, Modbus Serial
-	Multi-drop Capability: Yes, Slave (hardware ID setting)
Physical Interface 2 (Port 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.
Input/Output Configuration	
Universal Input:	
-	8 Channels
-	Voltage: 0 - 10V (+/-0.005V), 0 - 5V (+/- 0.003V)
-	Current: 4 - 20mA (+/-0.01mA), 0 - 20mA (+/-0.01mA)
-	Resistance: 0 - 30K (+/-10 Ohm), 0 - 10K (+/-5 Ohm), 0 - 1.5K (+/-1 Ohm)
-	Thermistor: 10K, 10K Shunt, 1K Balco, 1K Platinum : All (+/-0.01°C
Digital Input:	
-	8 Channels
-	Type: Voltage Free
-	Limit: +5V at 500Ohm Resistance maximum
Digital Output:	
-	8 Channels
-	Type: Relay Contacts, SPST NO, 48VA at 24VAC, Pilot Duty
Transistor Output:	
-	2 Channels
-	Type: Open Collector Output, Isolation 3.75KV
-	Max Rating: 1A, 60V
Analogue Output	
-	4 Channels (12 bits resolution)
-	Type: Current: 0 - 20mA, 4 - 20mA (up to 800 Ohm load), Voltage: 0 - 10V

Mechanical:	
-	Dimension: 187mm x 110mm x 47mm
-	Material: UL94 ABS
-	Weight: 400g
Built In Function Blocks	
Input/Output	
1)	Digital Input
2)	Digital Output
3)	PWM Control (Open Collector Output)
4)	Analogue Input
5)	Analogue Output
6)	Totaliser
7)	Pulse Accumulator
Sedona Native Functions	
1)	Time & Schedule Management
2)	Timer Management
3)	Special Functions like PID
4)	Modbus
5)	Bacnet
6)	Digital Input
7)	Digital Output
8)	Analog Input
9)	Analog Output
10)	PWM
11)	Pulse Accumulator
12)	Totaliser

Special Sedona Kits

- P2P Peer to Peer over IP
- Live Psychrometrics and Calculations
- Optimum Start Stop (OSS)
- Schedules
- Email Alarms
- FG Touch Screen
- Histories
- Temperature Tables

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