eI/O Ethernet & PoE Digital I/O Modules

Cost-effective alternative for monitoring and control

Features

> Ethernet connected digital I/O

> 10/100BaseT Ethernet Modbus TCP interface

> 4 optically isolated inputs provide protection against surges and ground loops

> 4 high-current SPDT Form C relays can switch up to 5A at 60VDC

> Field wiring is simplified via removable 3.5mm terminal blocks compatible with 16-30 AWG wire

> PoE version allows power and data over a single CAT5 cable

> Status LEDs display power, Ethernet link and I/O activity

> Sealevel SeaMAX software supports Microsoft Windows operating systems

Remote Monitoring of Digital I/O From Anywhere On Your Network

Easily monitor and control digital I/O from anywhere on your 10/100BaseT Ethernet network. eI/O modules provide system designers with a compact, low-cost alternative for distributed control and are perfect for a wide variety of applications including process control, facility management, security, and broadcast automation.

Five different I/O models are currently available offering a choice of optically isolated inputs, Reed relay outputs, and Form C relay outputs. All eI/O modules are available in Power over Ethernet (PoE 802.3af) versions to connect to existing PoE networks with power and data provided on one cable, or users can choose DC powered models with 9-30VDC input range. Ready for DIN rail mounting, eI/O modules include a removable plastic clip that snaps onto 35mm DIN rail. The clip can also be attached to any flat surface such as a wall or under a counter.

Communicate with eI/O modules using industry standard Modbus TCP protocol or Sealevel SeaMAX software. The SeaMAX software suite supports the eI/O family and is designed to work with third party applications via the SeaMAX API. Sealevel's SeaMAX software drivers and utilities make installation and operation easy using Microsoft® Windows operating systems. Standard operating temperature range of eI/O modules is 0˚C to 70˚C.

Specifications

Specifications	110E / 110PoE	120E / 120PoE	130E / 130PoE	140E / 140PoE	150E / 150PoE
Number of Inputs / Outputs	4 Isolated Inputs, 4 Reed Relay Outputs	4 Isolated Inputs, 4 Form C Relay Outputs	4 Isolated Inputs	4 Reed Relay Outputs	4 Form C Relay Outputs
Power Requirement (Standard)	9-30VDC @ 1.5W	9-30VDC @ 2.0W	9-30VDC @ 2.0W	90-30VDC @ 1.5W	9-30VDC @ 2.0W
Power Requirement (PoE)	PoE Class 0 @ 2.2W (IEEE 802.3af)	PoE Class 0 @ 2.2W (IEEE 802.3af)	5-30 VDC @ 1.5W	PoE Class 0 @ 2.2W (IEEE 802.3af)	PoE Class 0 @ 2.6W (IEEE 802.3af)
Input Range	5 - 30VDC	5-30 VDC	5-30 VDC	-	-
Input Isolation	2500 VAC RMS, 3500 VDC	2500 VAC RMS, 3500 VDC	2500 VAC RMS, 3500 VDC	-	-
Input Resistance	6.2K Ohms (in series)	6.2 K Ohms (in series)	6.2 K Ohms (in series)	-	-
Output Power	-	DC 240W, AC 1200 VA	-	-	DC 240W, AC 1200 VA
Contact Voltage	60VDC max	60VDC max., 250VAC max., (5VDC min.)	-	60VDC max	60VDC max., 250VAC max., (5VDC min.)
Contact Current AC	-	6A max.	-	-	6A max.
Contact Current DC	500mA max	<30 VDC @ 5A max., >30 VDC @ 700mA max., (100mA min.)	-	500mA max	<30 VDC @ 5A max., >30 VDC @ 700mA max., (100mA min.)
Contact Operate Time	0.5ms max	10ms max	-	0.5ms max	10ms max.
Contact Bounce Time	0.5ms max	-	-	0.5ms max	-
Contact Release Time	0.2ms max	5ms max.	-	0.2ms max	5ms max.
Field Wiring	16 - 30 AWG	16 - 30 AWG	16 - 30 AWG	16 - 30 AWG	16 - 30 AWG
Operating Temperature	0°C - +70°C	0°C - +70°C	0°C - +70°C	0°C - +70°C	0°C - +70°C
Storage Temperature	-50°C - +105°C	-50°C - +105°C	-50°C - +105°C	-50°C - +105°C	-50°C - +105°C
Humidity Range	10 - 90% R.H.	10 - 90% R.H.	10 - 90% R.H.	10 - 90% R.H.	10 - 90% R.H.
Dimensions	4.5" (L) x 3.5" (W) x 1.3" (H)	4.5" (L) x 3.5" (W) x 1.3" (H)	4.5" (L) x 3.5" (W) x 1.3" (H)	4.5" (L) x 3.5" (W) x 1.3" (H)	4.5" (L) x 3.5" (W) x 1.3" (H)