



# Ethernet Modbus TCP to 16 Isolated Inputs / 8 Form C Relay Outputs

**Part:** 420E | **Model:** Seal/O-420E

Interface 16 optically isolated inputs and 8 Form C relay outputs via any 10/100BaseT Ethernet connection with the Seal/O-420E. Inputs can range from 5-30VDC while the Form C relay outputs can switch up to 60VDC @ 2A. The Seal/O-420E is powered from your 9-30VDC source, or select from a variety of Sealevel power supply options.

Communicate with the Seal/O-420E using industry-standard Modbus TCP protocol or use the Sealevel SeaMAX API software libraries from your application program. Sealevel's SeaMAX software drivers and utilities make installation and operation easy using Microsoft Windows and Linux operating systems.

The Sealevel Modbus Connect app for iOS allows you to access the registers, coils and discrete I/O of your Sealevel Modbus devices and is available on the App Store. Use the app to remotely access I/O in the field or for testing and troubleshooting during application development.

Expand your I/O network with Seal/O N-series products. Seal/O modules are available with Reed and Form C relays, optically isolated inputs, TTL interfaces, A/D and D/A functionality. Up to 246 additional expansion modules can be added using convenient pass-through connectors.

Get a jump start on your digital I/O development with The Digital I/O Handbook that will provide helpful information that you will use again and again. Check out Chapter 1 for an overview of logic principles.

## Features & Specifications

### Ethernet Modbus TCP to 16 Isolated Inputs / 8 Form C Relay Outputs

Part: 420E | Model: Seal/O-420E

#### Features

- 10/100BaseT Ethernet Modbus TCP interface
- 16 optically isolated inputs
- 8 SPDT Form C Reed relays
- Removable screw terminals simplify field wiring
- Input power via terminal block or modular connector
- DIN rail mount or table mount
- Sealevel SeaMAX software supports Microsoft Windows and Linux operating systems

#### Specifications

|                              |  |
|------------------------------|--|
| <b>Family</b>                | Seal/O                                     |
| <b>Contact Bounce Time</b>   | 7ms max.                                   |
| <b>Contact Current</b>       | 2A max.                                    |
| <b>Contact Operate Time</b>  | 2ms max.                                   |
| <b>Contact Release Time</b>  | 1ms max.                                   |
| <b>Contact Voltage</b>       | 60VDC max.                                 |
| <b>Digital I/O</b>           | Form C Relay Outputs, Isolated Inputs      |
| <b>Dimensions</b>            | 7.5 (L) x 5.1 (W) x 1.3 (H)                |
| <b>Extended Temperature</b>  | Call for Options                           |
| <b>Humidity Range</b>        | 10 – 90% Relative Humidity, Non-Condensing |
| <b>Input Isolation</b>       | 300V                                       |
| <b>Input Range</b>           | 5-30 VDC                                   |
| <b>Host Interface(s)</b>     | Ethernet                                   |
| <b>Operating Temperature</b> | 0°C to 70°C (32°F to 158°F)                |
| <b># of Ports</b>            | 16/8                                       |
| <b>Power Requirement</b>     | 9-30 VDC @ 3.5W                            |
| <b>RoHS Compliant</b>        | Yes  |
| <b>Storage Temperature</b>   | -50°C to 105°C (-58°F to 221°F)            |