



# USB to 16 Isolated Inputs / 8 Form C Relay Outputs

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

Control and monitor 16 optically isolated inputs and 8 Form C (SPDT) relay outputs via any USB connection with the Seal/O-420U. Inputs can range from 5-30VDC, while the Form C relays switch up to 60VDC @ 2A. Inputs and outputs are grouped in four-bit segments that each share a common for easy wiring via removable 3.5mm terminal blocks. The Seal/O-420U is powered from your 9-30VDC source, or select from a variety of Sealevel power supply options.

Communicate with the Seal/O-420U using industry-standard Modbus RTU 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.

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.

The Seal/O-420U integrates Sealevel's SeaLATCH locking USB port, which is fully compatible with standard USB cables. When used with the included USB cable with a SealLATCH USB type B connector, the metal thumbscrew provides a secure connection to the device and prevents accidental cable disconnection.

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

### USB to 16 Isolated Inputs / 8 Form C Relay Outputs

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#### Features

- 16 optically isolated inputs
- 8 SPDT Form C relays
- Removable screw terminals simplify field wiring
- Input power via terminal block or modular connector
- Sealevel's SeaLATCH locking USB port provides secure connection with SeaLATCH USB cables via metal thumbscrews
- DIN rail or table mount
- Includes 6' USB type A to SeaLATCH USB type B device cable (Item# CA356)
- 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. / 50VAC 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>	USB
<b>Number of Inputs/Outputs</b>	16 Inputs / 8 Outputs
<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 @ 2.2W
<b>RoHS Compliant</b>	Yes
<b>Storage Temperature</b>	-50°C to 105°C (-58°F to 221°F)
<b>USB Specification</b>	1.1 Compliant, 2.0 Compatible