



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 SeaLATCH 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

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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

Family	Seal/O
Contact Bounce Time	7ms max.
Contact Current	2A max.
Contact Operate Time	2ms max.
Contact Release Time	1ms max.
Contact Voltage	60VDC max.
Digital I/O	Form C Relay Outputs, Isolated Inputs
Dimensions	7.5 (L) x 5.1 (W) x 1.3 (H)
Extended Temperature	Call for Options
Humidity Range	10 – 90% Relative Humidity, Non-Condensing
Input Isolation	300V
Input Range	5-30 VDC
Host Interface(s)	USB
Number of Inputs/Outputs	16 Inputs / 8 Outputs
Operating Temperature	0°C to 70°C (32°F to 158°F)
# of Ports	16/8
Power Requirement	9-30 VDC @ 2.2W
RoHS Compliant	Yes
Storage Temperature	-50°C to 105°C (-58°F to 221°F)
USB Specification	1.1 Compliant 2.0 Compatible