



# Wi-Fi 802.11b/g Modbus TCP Interface to 16 Isolated Inputs / 8 Form C Relay Outputs

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

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

Communicate with the Seal/O-420W over Wi-Fi (802.11b and 802.11g) networks using the Sealevel SeaMAX API software libraries or use any Modbus TCP compliant device. Sealevel's SeaMAX software drivers and utilities make installation and operation easy using Microsoft Windows and Linux operating systems. Security features include WEP and the latest WPA-TKIP and WPA2-AES encryption standards.

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

### Wi-Fi 802.11b/g Modbus TCP Interface to 16 Isolated Inputs / 8 Form C Relay Outputs

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#### Features

- Complies with 802.11g and 802.11b (2.4GHz) networking standards
- Wireless security supports WEP, WPA-TKIP, and WPA2-AES encryption standards
- 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>Input Isolation</b>	300V
<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>Frequency Range</b>	2.412 – 2.484 GHz
<b>Humidity Range</b>	10 – 90% Relative Humidity, Non-Condensing
<b>Contact Bounce Time</b>	7ms max.
<b>Host Interface(s)</b>	Wi-Fi (802.11bgn)
<b>Input Range</b>	5-30 VDC
<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>Output Power</b>	14dBm +1.5/-1.0 dBm
<b># of Ports</b>	16/8
<b>Power Requirement</b>	9-30 VDC @ 4.0W
<b>Storage Temperature</b>	-50°C to 105°C (-58°F to 221°F)
<b>Wireless Channels</b>	11 (US)13 (Europe, Japan)
<b>Wireless Range</b>	328' (Indoors)
<b>Wireless Data Rates</b>	54Mbps Max.1Mbps Min.
<b>Wireless Standards</b>	802.11b802.11g802.11i