



# Wi-Fi 802.11b/g Modbus TCP to 32 Isolated Inputs

**Part:** 430W | **Model:** Seal/O-430W

Interface 32 optically isolated inputs via a wireless network with the Seal/O-430W. Inputs can range from 5-30VDC and provide 300V external isolation and high channel-to-channel isolation. Connection is made using convenient 3.5mm removable screw terminal connectors. The Seal/O-430W is powered from your 9-30VDC source, or select from a variety of Sealevel power supply options.

Communicate with the Seal/O-430W over Wi-Fi (802.11b and 802.11g) networks 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. 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.

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## Features & Specifications

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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
- 32 optically isolated inputs
- 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>Host Interface(s)</b>	Wi-Fi (802.11bgn)
<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>Input Isolation</b>	300V
<b>Input Range</b>	5-30 VDC
<b>Input Impedance</b>	6.2K Ohms (in series)
<b>Digital I/O</b>	Isolated Inputs
<b>Operating Temperature</b>	0°C to 70°C (32°F to 158°F)
<b>Number of Inputs/Outputs</b>	32 Inputs
<b>Output Power</b>	14dBm +1.5/-1.0 dBm
<b># of Ports</b>	32
<b>Power Requirement</b>	9-30 VDC @ 2.4W
<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