



# Wi-Fi 802.11b/g Modbus TCP to 16 Isolated Inputs / 16 Open-Collector Outputs

**Part:** 530W **Model:** Seal/O-530W

Monitor and control 16 optically isolated inputs and 16 open-collector outputs via a wireless network with the Seal/O-530W. Inputs can range from 5-30VDC, while the open-collector outputs provide high current sinking over a large operating voltage. Each open-collector output circuit includes a flyback diode for protection when interfacing highly inductive loads, such as DC motors. Inputs are grouped into four-bit segments. Each group shares a common for easy wiring via removable 3.5mm terminal blocks. Outputs are grouped in eight-bit ports which share high and low voltage inputs.

The Seal/O-530W is powered from your 9-30VDC source, or select from a variety of Sealevel power supply options.

Communicate with the Seal/O-530W 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.

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
- 16 optically isolated inputs
- 16 open collector outputs
- Removable screw terminals simplify field wiring
- Status indicator LEDs for Communication, Fault, and Power
- Input power via terminal block or modular connector
- Optional DIN rail or table mount
- Sealevel SeaMAX software supports Microsoft Windows and Linux operating systems

Specifications

Family	Seal/O
Digital I/O	Isolated Inputs, Open-Collector Outputs
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	2500VAC RMS, 3500VDC
Input Range	5-30 VDC
Input Impedance	6.2K Ohms (in series)
Host Interface(s)	Wi-Fi (802.11bgn)
Number of Inputs/Outputs	16 Inputs / 16 Outputs
Operating Temperature	-25°C to 85°C (-13°F to 185°F)
Output Dissipation	Max. 1000mA (single), Max. 2000mA (port)
Output Isolation	2500 VAC RMS, 3500 VDC
Output Power	DC 60W max.
Output Type	Open-Collector
Output Voltage	Max. 60VDC
# of Ports	16/16
Power Requirement	9-30 VDC @ 3.4W
Storage Temperature	-50°C to 105°C (-58°F to 221°F)