



Wi-Fi 802.11b/g Modbus TCP to 96 Channel TTL Digital Interface

Part: 463W | **Model:** Seal/O-463W

The Seal/O-463W wireless to digital I/O interface module provides 96 channels of buffered drive digital I/O. The interface module addresses the 96 channels of I/O as 12 eight-bit ports, each programmable as input or output. Using standard 50-pin IDC ribbon cables, connect up to four industry-standard relay racks for PC based control and automation of equipment including sensors, switches, security control systems, and other industrial automation systems. A metal strain relief bracket is included to secure the cables after installation. The Seal/O-463W is powered from your 9-30VDC source, or select from a variety of Sealevel power supply options.

Communicate with the Seal/O-463W 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.

To simplify ribbon cable installation, a printed copy of the Ribbon Cable Installation Instructions is included with all Seal/O-463 orders.

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
- 96 channels of buffered TTL I/O
- Each 8-bit port individually configurable as input or output
- Four 50-pin industry-standard solid-state relay rack connectors
- Status indicator LEDs for Communication, Fault, and Power
- Input power via terminal block or modular connector
- DIN rail or table mount
- Sealevel SeaMAX software supports Microsoft Windows and Linux operating systems

Specifications

Family	Seal/O
Operating Temperature	0°C to 70°C (32°F to 158°F)
Dimensions	7.5 (L) x 5.1 (W) x 1.3 (H)
Extended Temperature	Call for Options
Frequency Range	2.412 – 2.484 GHz
Humidity Range	10 – 90% Relative Humidity, Non-Condensing
Host Interface(s)	Wi-Fi (802.11bgn)
Number of Inputs/Outputs	96 TTL
Digital I/O	TTL I/O
Output Specification	Sink up to 64mA, Source up to 32mA
Output Power	14dBm +1.5/-1.0 dBm
# of Ports	96
Power Requirement	9-30 VDC @ 2.0W
Storage Temperature	-50°C to 105°C (-58°F to 221°F)
Wireless Channels	11 (US)13 (Europe, Japan)
Wireless Range	328' (Indoors)
Wireless Data Rates	54Mbps Max.1Mbps Min.
Wireless Standards	802.11b802.11g802.11i