Wi-Fi 802.11b/g Modbus TCP to 8 Isolated Inputs / 8 High-Current Form C Relay Outputs

Part: 520W | **Model:** SeaI/O-520W

The Sea/O-520W provides a wireless network connection to eight optically isolated inputs and eight high-current Form C relay outputs. Inputs can range from 5-30VDC and optical isolation protects the computer and other sensitive equipment from voltage transients and ground loops that are common in industrial environments. The high-current Form C relays can switch up to 6A loads at 250VAC and up to 5A at 30VDC. Form C relays can be wired for either normally open or normally closed operation. The SeaI/O-520W is powered from your 9-30VDC source, or select from a variety of Sealevel power supply options.

Communicate with the SeaI/O-520W 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 SeaI/O N-series products. SeaI/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
- 8 optically isolated inputs
- 8 SPDT high-current Form C 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

Family	SeaI/O
Contact Current AC	6A max.
Contact Current DC	30 VDC @ 5A max
Contact Operate Time	10ms max.
Contact Release Time	10ms max.
Contact Voltage	250VAC30VDC
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
Input Isolation	300V
Input Range	5-30 VDC
Host Interface(s)	Wi-Fi (802.11bgn)
Number of Inputs/ Outputs	8 Inputs 8 Outputs
Operating Temperature	0°C to 70°C (32°F to 158°F)
Output Power	14dBm +1.5/-1.0 dBm
# of Ports	8/8
Power Requirement	9-30 VDC @ 5.5W
Storage Temperature	-50°C to 105°C (-58°F to 221°F)
Switching Capacity	5 VDC @ 100mA min.
Wireless Channels	11 (US)13 (Europe, Japan)
Wireless Range	328' (Indoors)
Wireless Data Rates	54Mbps Max.1Mbps Min.
Wireless Standards	802.11b802.11g802.11i