



Wi-Fi 802.11b/g Modbus TCP to 8 16-bit A/D, 8 Isolated Inputs, 8 Form C Relay Outputs Multifunction Module

Part: 570W | **Model:** Seal/O-570W

The Seal/O-570W, designed using the Linear Technology LTC1867 A/D chip, provides eight single-ended 16-bit analog inputs, eight optically isolated inputs, and eight Form C relay outputs.

The A/D inputs are independently software-selectable for +/- 5V or +/- 15V ranges and feature high input impedance, allowing easy connection to a variety of sensors. The A/D inputs support floating/non-referenced or ground-referenced selections. This makes the A/D inputs ideal for measuring floating signal sources such as outputs of transformers, thermistors, and battery-powered devices. Additionally, the A/D inputs can operate in bipolar or unipolar modes, and a dipswitch enables a bias voltage of +5 through a 10K resistor for thermistor input mode.

The Seal/O-570W module features eight optically isolated inputs rated for 5-30VDC and provides 3500 VDC external isolation, while the Form C relays are configurable as normally-open or normally-closed and can switch DC loads up to 24W. Perfect for a variety of data acquisition/control and test & measurement applications, the Seal/O-570W includes removable terminal blocks, which simplify field-wiring connections.

The Seal/O-570W is powered from your 9-30VDC source, or select from a variety of Sealevel power supply options. The modules operate over a wide operating temperature range of -20°C to 70°C and extended temperature range is optional.

Communicate with the Seal/O-570W 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
- 8 single-ended 16-bit analog inputs
- 8 optically isolated inputs
- 8 Form C relay outputs
- Removable screw terminals simplify field wiring
- 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

A/D Chip	Linear Technology LTC1867
A/D Inputs	8 Single-Ended
A/D Range	+/-5V, +/-15V
A/D Resolution	16-bits
Analog I/O	A/D Inputs
Family	Seal/O
Contact Bounce Time	7ms max.
Contact Current	2A max.
Contact Operate Time	5ms max.
Contact Release Time	5ms max.
Contact Voltage	30VDC max.
Digital I/O	Form C Relay Outputs, Isolated Inputs
Dimensions	7.5 (L) x 5.1 (W) x 1.3 (H)
Extended Temperature	Call for Options
Field Wiring	16 – 30 AWG
Humidity Range	10 – 90% Relative Humidity, Non-Condensing
Input Isolation	2500 VAC RMS, 3500 VDC
Input Range	5-30 VDC
Input Impedance	6.2 K Ohms (in series)
Host Interface(s)	Wi-Fi (802.11bgn)
Number of Inputs/Outputs	16 Inputs / 8 Outputs
Operating Temperature	-20°C to 70°C (-4°F to 158°F)
Output Specification	24 VDC @ 1A
Output Type	Form C Relay
# of Ports	8/8/8
Power Connector	1.3mm Barrel, Terminal Block, RJ45 Pass-Through
Power Requirement	9-30 VDC @ 4.3W
RoHS Compliant	Yes
Storage Temperature	-50°C to 105°C (-58°F to 221°F)
Switching Capacity	24W