



# RS-485 Modbus RTU Interface to 96 Channel TTL Digital Interface

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

The Seal/O-463M is an RS-485 Modbus RTU interface module providing 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-463M is powered from your 9-30VDC source, or select from a variety of Sealevel power supply options.

Communicate with the Seal/O-463M using industry-standard Modbus RTU 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.

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

### RS-485 Modbus RTU Interface to 96 Channel TTL Digital Interface

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#### Features

- RS-485 Modbus RTU interface
- 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

<b>Family</b>	Seal/O
<b>Digital I/O</b>	TTL I/O
<b>Dimensions</b>	7.5 (L) x 5.1 (W) x 1.3 (H)
<b>Extended Temperature</b>	Call for Options
<b>Humidity Range</b>	10 – 90% Relative Humidity, Non-Condensing
<b>Host Interface(s)</b>	RS-485
<b>Number of Inputs/Outputs</b>	96 TTL
<b>Operating Temperature</b>	0°C to 70°C (32°F to 158°F)
<b>Output Power</b>	+5V @ 1A (5W) max.
<b>Output Specification</b>	Sink up to 64mA, Source up to 32mA
<b># of Ports</b>	96
<b>Power Requirement</b>	9-30 VDC @ 2.0W
<b>RoHS Compliant</b>	Yes
<b>Storage Temperature</b>	-50°C to 105°C (-58°F to 221°F)