



# 16 A/D, 2 D/A, 8 Open-Collector Outputs, 8 Isolated Inputs Seal/O Expansion Module

**Part:** 470N | **Model:** Seal/O-470N

The Seal/O-470N adds eight differential or 16 single-ended 12-bit inputs, two 12-bit D/A output channels, eight optically isolated inputs, and eight open-collector outputs to your Seal/O network. Compatible with all Seal/O base units (Ethernet, USB, RS-485, RS-232), the Seal/O-470N connects easily using an RS-485 input. Cabling is accomplished via the units RJ45 connector or removable screw terminals. RS-485 line conditioning allows easy installation of termination and pull-up/pull-down resistors.

All Seal/O N-series expansion modules ship with an expansion and strap kit that includes four metal straps, four #4-40 screws, and a 5" RJ45 RS-485 interconnect cable. The metal straps allow you to connect multiple Seal/O modules together in a stack. The interconnect cable can be used to connect Seal/O modules together via the RJ45 pass-through connectors, providing an easy method to cascade RS-485 signals and power from one module to the next. Alternatively, use inexpensive CAT5 cabling to pass data signals between Seal/O modules to create a distributed network.

## Features & Specifications

# 16 A/D, 2 D/A, 8 Open-Collector Outputs, 8 Isolated Inputs Seal/O Expansion Module

Part: 470N | Model: Seal/O-470N

### Features

- Quick connection to Seal/O devices using RJ45 connector or removable screw terminals
- 8 differential or 16 single-ended 12-bit inputs
- 2 12-bit D/A output channels
- 8 optically isolated inputs
- 8 open-collector outputs
- Removable screw terminals simplify field wiring
- Input power via terminal block or modular connector
- DIN rail or table mount
- Includes expansion and strap kit (item# KT122)

### Specifications

<b>A/D Chip</b>	Maxim MAX197
<b>A/D Inputs</b>	8 Differential or 16 Single-Ended
<b>A/D Range</b>	0-5V, 0-10V, +/-5V, +/-10V
<b>A/D Resolution</b>	12-bits
<b>Analog I/O</b>	A/D Inputs, D/A Outputs
<b>Family</b>	Seal/O
<b>D/A Range</b>	0-5V, 0-10V
<b>D/A Resolution</b>	12-bits
<b>Digital I/O</b>	Isolated Inputs, Reed Relay Output
<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>Input Isolation</b>	300V
<b>Input Range</b>	5-30 VDC
<b>Host Interface(s)</b>	Expansion
<b>Number of Inputs/Outputs</b>	8 Inputs, 8 Outputs
<b>Operating Temperature</b>	0°C to 70°C (32°F to 158°F)
<b>Output Dissipation</b>	Max. 500mA (single), Max. 580mA (all)
<b>Output Type</b>	Open-Collector
<b>Output Voltage</b>	Max. 30V
<b># of Ports</b>	16/2/8/8
<b>Power Requirement</b>	9-30 VDC @ 1.5W
<b>RoHS Compliant</b>	Yes
<b>Storage Temperature</b>	-50°C to 105°C (-58°F to 221°F)