



# 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

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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

A/D Chip	Maxim MAX197
A/D Inputs	8 Differential or 16 Single-Ended
A/D Range	0-5V, 0-10V, +/-5V, +/-10V
A/D Resolution	12-bits
Analog I/O	A/D Inputs, D/A Outputs
Family	Seal/O
D/A Range	0-5V, 0-10V
D/A Resolution	12-bits
Digital I/O	Isolated Inputs, Reed Relay Output
Dimensions	7.5 (L) x 5.1 (W) x 1.3 (H)
Extended Temperature	Call for Options
Humidity Range	10 – 90% Relative Humidity, Non-Condensing
Input Isolation	300V
Input Range	5-30 VDC
Host Interface(s)	Expansion
Number of Inputs/Outputs	8 Inputs, 8 Outputs
Operating Temperature	0°C to 70°C (32°F to 158°F)
Output Dissipation	Max. 500mA (single), Max. 580mA (all)
Output Type	Open-Collector
Output Voltage	Max. 30V
# of Ports	16/2/8/8
Power Requirement	9-30 VDC @ 1.5W
RoHS Compliant	Yes
Storage Temperature	-50°C to 105°C (-58°F to 221°F)