



# 8 16-bit A/D, 8 Isolated Inputs, 8 Form C Relay Outputs Seal/O Expansion Module

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

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

Compatible with all Seal/O base units (Ethernet, USB, RS-485, RS-232), the Seal/O-570N easily connects using an RS-485 input. Cabling is accomplished via the RJ45 pass-through connector or removable screw terminals. RS-485 line conditioning allows easy configuration of termination and pull-up/pull-down resistors via external dipswitches.

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 I/O network.

Features & Specifications

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Features

- Quick connection to Seal/O devices using RJ45 connector or removable screw terminals
- 8 single-ended 16-bit analog inputs
- 8 optically isolated inputs
- 8 Form C relay 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	Linear Technology LTC1867
Field Wiring	16 – 30 AWG
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
A/D Inputs	8 Single-Ended
Input Isolation	2500 VAC RMS, 3500 VDC
Humidity Range	10 – 90% Relative Humidity, Non-Condensing
Input Range	5-30 VDC
Input Impedance	6.2 K Ohms (in series)
Host Interface(s)	Expansion
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 @ 2.3W
RoHS Compliant	Yes
Storage Temperature	-50°C to 105°C (-58°F to 221°F)
Switching Capacity	24W