

## 470 Series – 16 A/D, 2 D/A, 8 24V Outputs, 8 Isolated Inputs

Designed using the Maxim MAX197 successive approximation-type A/D chip, the Seal/O-470 provides eight differential or 16 single-ended 12-bit inputs. The A/D inputs can be individually configured for sensing 4-20mA current loop signals. Additionally, the module provides two 12-bit D/A output channels, eight optically isolated inputs, and eight open-collector outputs, ideal for driving 24V devices commonly found in industrial environments. Perfect for a variety of data acquisition/control and test & measurement applications, the Seal/O-470 includes removable screw terminals, which simplify field-wiring connections.

### USE EXTREME CAUTION!



High voltages will be present on the Seal/O family of products when high voltage is connected. Never handle the printed circuit board when high voltage is connected. Never handle the printed circuit board when high voltage signals are connected to the board.



RS-232 Interface Shown

Optically Isolated Inputs	
Type	8 non-polarized optically isolated inputs
Voltage Range	5-30VDC
Isolation	2500VAC RMS / 3500VDC
Input Resistance	6.2K Ohms in series
Response Time	4 microseconds
Open-collector Outputs	
Output Voltage	Max. 30VDC
Output Current	Max. 500mA (single output)
Output Current	Max. 580mA (all outputs)

## 470 Series – 16 A/D, 2 D/A, 8 24V Outputs, 8 Isolated Inputs, Continued

A/D Inputs	
Number of Channels	8 differential or 16 single-ended
Resolution	12-bits
Sampling Rate	100K/s
A/D Input Range	
Software Selectable	0-5V, 0-10V, +/-5V, +/-10V
Hardware Selectable	0-20mA current loop (for 4-20mA devices)
D/A Outputs	
Number of Channels	2 single-ended
Resolution	12-bits
Output Range	0-5V, 0-10V
Load Resistance	Min. 2K