OPTO 22

DATA SHEET

Form 440-050118

Description

The voltage input analog module provides a single channel of optically-isolated voltage-to-digital conversion. The modules offer wide nominal input and special over/under range capabilities. The "T" module also includes 4,000 V_{rms} channel-to-channel isolation which eliminates any ground loop problems. Modules plug into a Standard analog I/O rack and are secured by a captive screw.

Part Numbers	Description
AD6	0 to +5 VDC Input
AD6T	0 to +5 VDC Input Isolated
AD6HS	0 to +5 VDC Input-High Speed
AD7	0 to +10 VDC Input
AD9T	0 to 50 mV Input Isolated
AD11	-5 to +5 VDC Input
AD12	-10 to +10 VDC Input
AD12T	+10V to -10 mV Input Isolated
AD13T	0 to 100 mV Input Isolated

	AD6 AD6HS	AD6T	AD7	AD9T
Nominal Voltage Input	0 to 5 VDC	0 to 5 VDC	0 to 10 VDC	0 to 50 mV
Over/Under Range Capability	-.125 to 11 VDC	-.125 to 11 VDC	-.250 to 11 VDC	-.125 to 110 mV
Accuracy*	± 5 mV	± 5 mV	± 10 mV	± 100 mV
Power Requirements	16 mA at +15 VDC 11 mA at -15 VDC	35 mA at +15 VDC 35 mA at -15 VDC	16 mA at +15 VDC 11 mA at -15 VDC	35 mA at +15 VDC 35 mA at -15 VDC

*May be improved by the use of the "Set Offset" or "Set Gain" commands in the OPTOMUX command set.

	AD11	AD12 AD12T	AD13T
Nominal Voltage Input	-5 to + 5 VDC	-10 to 10 VDC	0 to 100 mV
Over/Under Range Capability	-5.25 to 11 VDC	-10.5 to 11 VDC	-.250 to 220 mV
Accuracy*	± 10 mV	± 20 mV	± 100 µV
Power Requirements	15 mA at +15 VDC 12 mA at -15 VDC	15 mA at +15 VDC 12 mA at -15 VDC	35 mA at +15 VDC 35 mA at -15 VDC

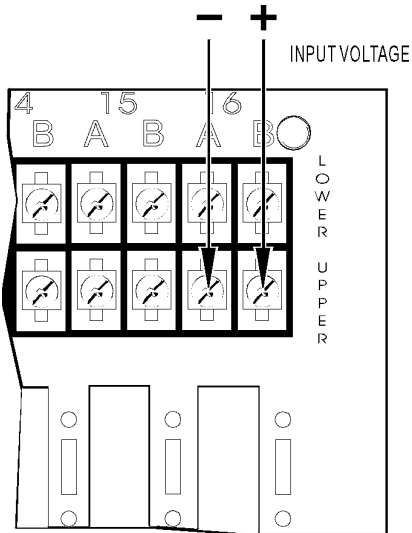*May be improved by the use of the "Set Offset" or "Set Gain" commands in the OPTOMUX command set.

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Specifications

Input Response Time*	5% of scale change in 8.5 ms 63% of scale change in 165 ms
Resolution	12-bits

Isolation
  Input-to-Output
  Input-to-Analog Supply ("T" Modules)
	
	4,000 Vrms
	4,000 Vrms

Temperature
  Operating
  Storage
	
	0° to 70° C
	-25° to 85° C

*AD6HS input response 100% step change in less than 3 milliseconds.

Connections

WIRING FOR AD6, AD6T, AD6HS, AD7, AD11, AD12, AND AD12T

WIRING FOR AD9T AND AD13T