Standard Voltage Input Module

Features

- Single channel of optically-isolated voltage-to-digital conversion
- "T" modules also include 4,000 Vrms channel-tochannel isolation, which eliminates any ground loop problems.
- Modules plug into a Standard analog I/O rack and are secured by a captive screw.

Description

Voltage input analog modules provide a single channel of optically-isolated voltage-to-digital conversion.

These modules offer wide nominal input and special over/ under range capabilities.

Modules with a "T" in the part number also include 4,000 Vrms 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.



OPTO 22 Standard Voltage Input Module

Part Numbers

Part	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	+10 TO -10 mV Input Isolated	
AD13T	0 TO 100 mV Input Isolated	



Standard Voltage Input Module

Specifications

	AD6 AD6HS	AD6T	AD7	AD9T
Nominal Voltage Input	0 to 5 VDC	0 to 5 VDC	0 to 10 VDC	0 to 50 mVDC
Over/Under Range Capability	-0.125 to 11 VDC	-0.125 to 11 VDC	-0.250 to 11 VDC	-0.125 to 110 mVDC
Accuracy*	± 5 mV	± 5 mV	± 10 mV	± 100 μV
Power Require- ments	16 mA at +15 (+/- 0.25) VDC 11 mA at -15 (+/- 0.25) VDC	35 mA at +15 (+/- 0.25) VDC 35 mA at -15 (+/- 0.25) VDC	16 mA at +15 (+/- 0.25) VDC 11 mA at -15 (+/- 0.25) VDC	35 mA at +15 (+/- 0.25) VDC 35 mA at -15 (+/- 0.25) 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	-10 to 10 VDC	0 to 100 mV DC
Over/Under Range Capability	-5.25 to 11 VDC	-10.5 to 11 VDC	-10.5 to 11 VDC	-0.250 to 220 mV DC
Accuracy*	± 10 mV	± 20 mV	± 20 mV	± 100 μV
Power Requirements	15 mA at +15 (+/- 0.25) VDC 12 mA at -15 (+/- 0.25) VDC	15 mA at +15 (+/- 0.25) VDC 12 mA at -15 (+/- 0.25) VDC	35 mA at +15 (+/- 0.25) VDC 35 mA at -15 (+/- 0.25) VDC	35 mA at +15 (+/- 0.25) VDC 35 mA at -15 (+/- 0.25) VDC

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

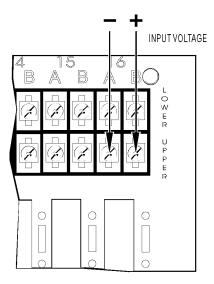
Input Response Time*	5% of scale change in 8.5 ms 63% of scale change in 165 ms	
Resolution	12-bits	
Isolation Input-to-Output Input-to-Analog Supply ("T" Mod- ules)	4,000 V _{RMS} 4,000 V _{RMS}	
Temperature Operating Storage	0 to 70 ℃ -25 to 85 ℃	

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

2

Connections

Wiring for AD6, AD6T, AD6HS, AD7, AD11, AD12, and AD12T



Wiring for AD9T and AD13T

