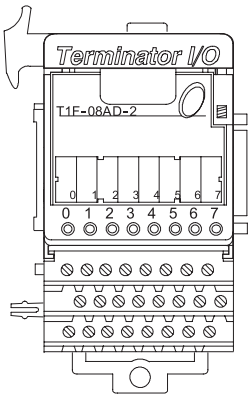
Analog Voltage Input Module

T1F-08AD-2

8-channel analog voltage input module

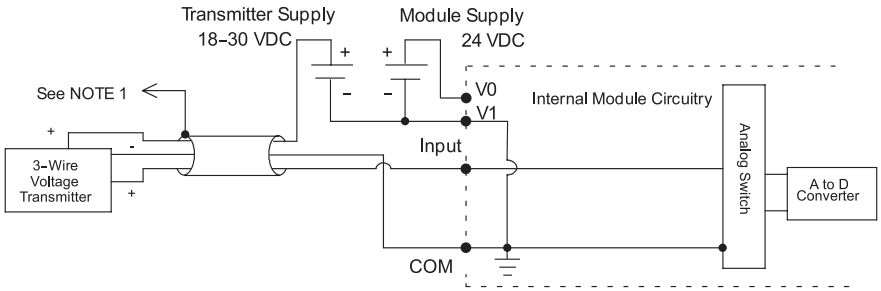
The 8-channel voltage input module uses a T1K-08B or T1K-08B-1 base, which is purchased separately.



T1F-08AD-2 Analog Input Specification	
Channels Per Module	8 single-ended (1 common)
Input Ranges	0-5 V, 0-10 V, ± 5V, ± 10V
Resolution	14 bit (13 bit plus sign bit)
Frequency Response	-3 db @ 500 Hz, -20 db/decade
Input Resistance	200 KΩ min.
Absolute Max. Ratings	Fault protected input 130 V(rms) or 100 VDC
Conversion Time	Normal mode: 5 ms per channel (default); Fast mode*: 0.5 ms per channel
Linearity Error	± 2 count max.
Input Stability	Normal mode: ± 1 count (default); Fast mode*: ± 5 counts
Calibration Full Scale Error	8 counts max.
Calibration Offset Error	2 counts max.
Max. Full Scale Inaccuracy (% of full scale); All errors included	0.08% @ 25°C 0.26% @ 60°C
Master Update Rate	8 channels per scan max.
Input Points Required	256 discrete pts. or 8 Dwords (32-bit words) (Network Interface Dependent)
Base Power Required	75 mA @ 5 VDC
External Module Power Required	21.6-26.4 VDC, 50 mA, class 2
Weight	136 g

*** Fast mode supported in module hardware version B or later.**

Equivalent Input Circuit



NOTES:
1: Shields should be grounded at the signal source.
2: Unused inputs should be connected to common (0 VDC).
3: More than one external power supply can be used, provided all the power supply commons are connected.