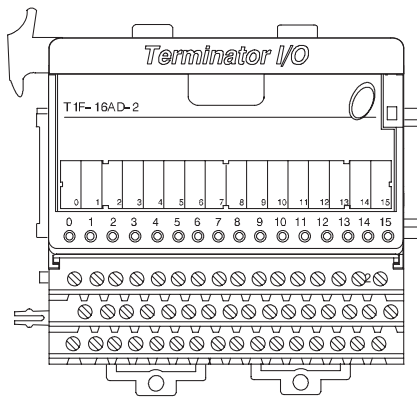


# Analog Voltage Input Module

## T1F-16AD-2

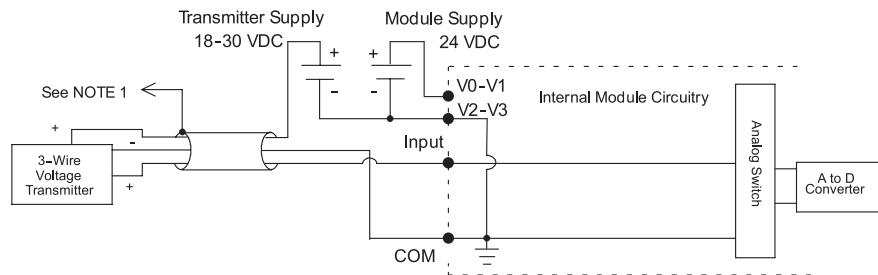
### 16-channel analog voltage input module

The 16-channel voltage input module uses a T1K-16B or T1K-16B-1 base, which is purchased separately.



T1F-16AD-2 Analog Input Specification	
<b>Number of Channels</b>	16, single ended (1 common)
<b>Input Ranges</b>	0-5 V, 0-10 V, $\pm 5V$ , $\pm 10 V$
<b>Resolution</b>	14 bit (13 bit plus sign bit)
<b>Frequency Response</b>	-3 db @ 500 Hz, -20 db/decade
<b>Input Resistance</b>	200 K $\Omega$ min.
<b>Absolute Max. Ratings</b>	Fault protected input 130 V(rms) or 100 VDC
<b>Conversion Time</b>	5 ms per channel
<b>Linearity Error</b>	$\pm 2$ count max.
<b>Input Stability</b>	$\pm 1$ count
<b>Calibration Full Scale Error</b>	8 counts max.
<b>Calibration Offset Error</b>	2 counts max.
<b>Max. Full Scale Inaccuracy (% of full scale). All errors included</b>	0.08% @ 25°C 0.26% @ 60°C
<b>Master Update Rate</b>	16 channels per scan max.
<b>Input Points Required</b>	512 discrete points or 16 Dwords (32-bit words) (Network Interface Dependent)
<b>Base Power Required</b>	75 mA @ 5 VDC
<b>External Module Power Required</b>	21.6-26.4 VDC, 50 mA, class 2
<b>Weight</b>	160 g

### 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.