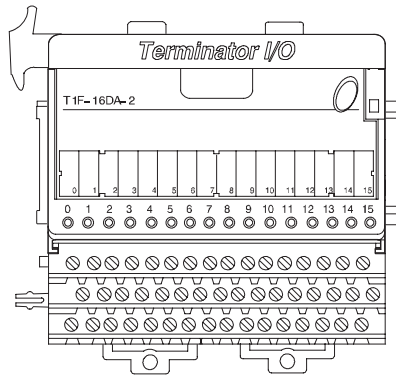


# Analog Voltage Output Module

## T1F-16DA-2 <--->

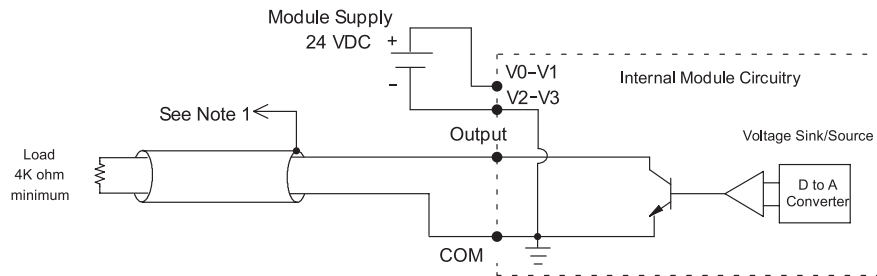
### 16-channel analog voltage output module

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



T1F-16DA-2 Analog Output Specification	
<b>Number of Channels</b>	16
<b>Output Ranges</b>	0-5V, 0-10 V, $\pm 5V$ , $+/- 10V$
<b>Output Type</b>	Single-ended, 1 common
<b>Resolution</b>	12 bit (1 in 4096)
<b>Peak Output Voltage</b>	15 VDC
<b>Load Impedance</b>	4 K $\Omega$ min.
<b>Load Capacitance</b>	0.01 $\mu F$ max.
<b>Linearity Error (end to end)</b>	$\pm 2$ counts max. $\pm 0.05\%$ of full scale max.
<b>Conversion Settling Time</b>	100 $\mu s$ max. full scale change
<b>Full Scale Calibration Error</b>	$\pm 12$ counts max.
<b>Offset Calibration Error</b>	10 V ranges: $\pm 6$ counts max. 5V ranges: $\pm 11$ counts max.
<b>Accuracy vs. Temperature</b>	$\pm 50$ ppm/ $^{\circ}C$ full scale calibration change
<b>Max. Full Scale Inaccuracy (% of full scale), All errors included</b>	10V ranges: $\pm 0.2\%$ @ 25 $^{\circ}C$ $\pm 0.4\%$ @ 60 $^{\circ}C$ 5V ranges: $\pm 0.3\%$ @ 25 $^{\circ}C$ $\pm 0.5\%$ @ 60 $^{\circ}C$
<b>Master Update Rate</b>	16 channels per scan max.
<b>Output 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 Power Supply</b>	21.6-26.4 VDC, 150 mA, class 2
<b>Weight</b>	172 g

### Equivalent Output Circuit



#### NOTES:

- 1: Shields should be connected to the 0V terminal of the module or the 0V of the power supply.
- 2: Unused current outputs should remain open (no connections) for minimum power consumption.