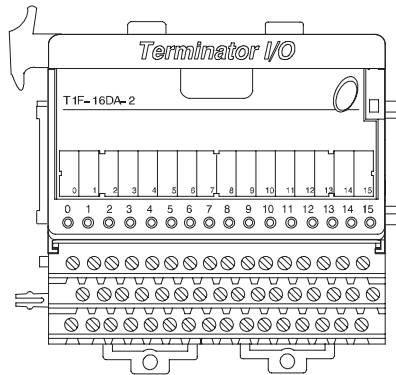


Analog Voltage Output Module

T1F-16DA-2

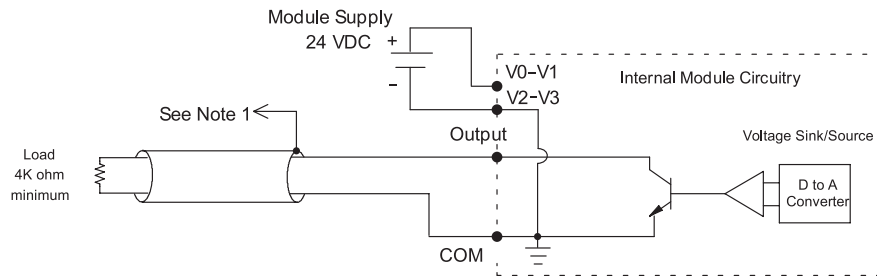
16-channel analog voltage output module

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	
Number of Channels	16
Output Ranges	0-5V, 0-10 V, $\pm 5V$, $+/- 10V$
Output Type	Single-ended, 1 common
Resolution	12 bit (1 in 4096)
Peak Output Voltage	15 VDC
Load Impedance	4 K Ω min.
Load Capacitance	0.01 μF max.
Linearity Error (end to end)	± 2 counts max. $\pm 0.05\%$ of full scale max.
Conversion Settling Time	100 μs max. full scale change
Full Scale Calibration Error	± 12 counts max.
Offset Calibration Error	10 V ranges: ± 6 counts max. 5V ranges: ± 11 counts max.
Accuracy vs. Temperature	± 50 ppm/ $^{\circ}C$ full scale calibration change
Max. Full Scale Inaccuracy (% of full scale), All errors included	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 $^{\circ}C$
Master Update Rate	16 channels per scan max.
Output Points Required	512 discrete points or 16 Dwords (32-bit words) (Network Interface Dependent)
Base Power Required	75 mA @ 5 VDC
External Power Supply	21.6-26.4 VDC, 150 mA, class 2
Weight	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.