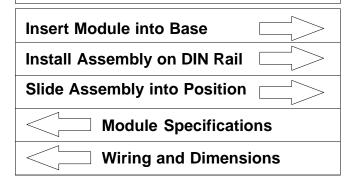


The most practical automation products at the industry's lowest prices delivered by 11 a.m.

Data Sheet: T1F-16DA-2-DS Re

Terminator I/O

T1F-16DA-2 Analog Output Module (use base T1K-16B or T1K-16B-1)

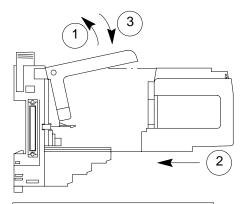


WARNING: To minimize the risk of potential safety problems, you should follow all applicable local and national codes that regulate the installation and operation of your equipment. These codes vary from area to area and it is your responsibility to determine which codes should be followed, and to verify that the equipment, installation, and operation are in compliance with the latest revision of these codes.

Equipment damage or serious injury to personnel can result from the failure to follow all applicable codes and standards. We do not guarantee the products described in this publication are suitable for your particular application, nor do we assume any responsibility for your product design, installation, or operation.

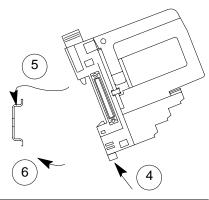
If you have any questions concerning the installation or operation of this equipment, or if you need additional information, please call us at 770–844–4200.

This publication is based on information that was available at the time it was printed. At *Automationdirect.com™* we constantly strive to improve our products and services, so we reserve the right to make changes to the products and/or publications at any time without notice and without any obligation. This publication may also discuss features that may not be available in certain revisions of the product.



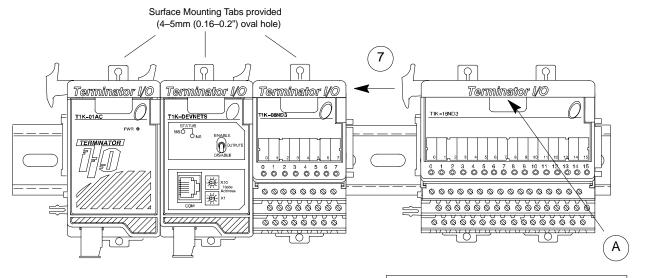
Insert Module into Base

- 1. Pull base arm back to allow space for module to enter base
- 2. Align module slides with base track
- 3. Press module firmly into base



Install Assembly on DIN Rail

- 4. Make sure the locking tab is in the latched position
- 5. Hook upper tab over upper flange of DIN rail
- 6. Tilt assembly toward DIN rail until module snaps securely to DIN rail



Slide Assembly into Position on DIN Rail

7. Slide the module assembly on the DIN rail until the clip arm attaches securely to the adjacent module.

A.To remove the module from the base, lift the center of the base arm slightly outward and upward to release the module. Lifting the base arm further will eject the module. B.To remove the module assembly from the DIN rail, lift the clip arm up and slide the module assembly away from the adjacent module. Use a small screwdriver to pull the locking tab to the down position.

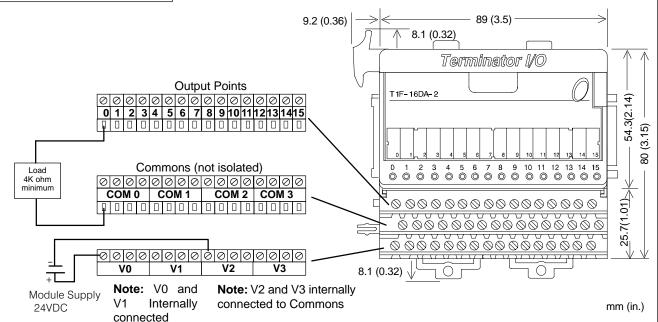
Specifications

T1F-16DA-2 16 Channel Voltage Analog Output

Number of Channels 16 0-5V. 0-10V. +/- 5V. +/- 10V **Output Ranges** Output Type single ended, 1 common Resolution 12 bit (1 in 4096) 15 VDC Peak Output Voltage Load Impedance 4K ohm min. Load Capacitance 0.01uF max. Linearity Error (end to end) +/-2 count max. + / - 0.050% of full scale max Conversion Settling Time 100us max. full scale change Full Scale Calibration Error +/-12 counts max. Offset Calibration Error 10V ranges:+ / - 6 counts max 5V ranges: +/- 11 counts max Accuracy vs. Temperature $+ / - 50 \text{ ppm/}^{\circ}\text{C}$ full scale calibration change Max. Full Scale Inaccuracy 10V ranges:+ / -0.2% @ 25°C +/-0.4% @ 60°C (% of full scale); all errors and temp drift 5V ranges: +/-0.3% @ 25°C included +/-0.5% @ 60°C Master Update Rate 16 channels per scan max. Output Points Required 512 discrete pts. or 16 dwords (d (double) \dot{w} ord = 32 bit \dot{w} ord) Network Interface dependent Base Power Required 75mA @ 5VDC 21.6-26.4VDC, 150mA class 2 **External Power Supply Operating Temperature** 0 to 60°C (32 to 140°F) Storage Temperature -20 to 70°C (-4 to 158°F) Relative Humidity 5 to 95% (non-condensing) **Environmental Air** No corrosive gases permitted Vibration MIL STD 810C 514.2 Shock MIL STD 810C 516.2 Noise Immunity NEMA ICS3-304 Weight 172g

Note: This module requires software setup via the Module Control Byte. Refer to the Memory Map Chapter in the T1K-INST-M Installation and I/O Manual.

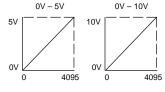
Wiring & Dimensions

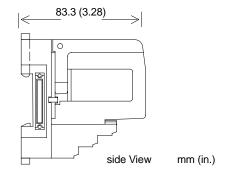


NOTES:

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

Unipolar Ranges





Equivalent Output Circuit

