

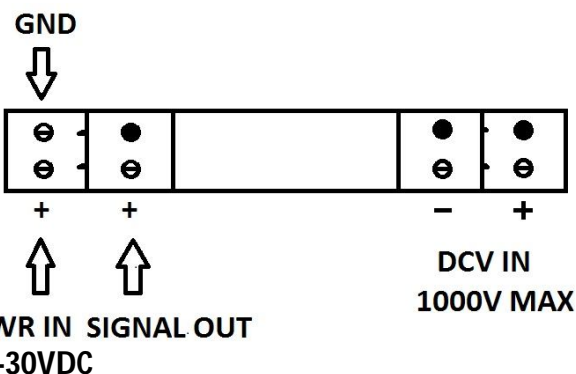
TUALATIN VALLEY LABS, Inc

DC1 INSTALLATION INSTRUCTIONS

- DC1-1 (0-1VDC Output)
- DC1-5 (0-5VDC Output)
- DC1-10 (0-10VDC Output)
- DC1-4 (4-20mA Output)

DESCRIPTION

The DC1 Voltage Transducer accepts a DC voltage input and provides a isolated proportional DC output that is compatible with most sensor monitoring products. The DC1 combines an opto-isolator with a signal conditioning circuit that provides effective signal isolation and easy installation.



DANGER

HAZARD OF ELECTRIC SHOCK, EXPLOSION OR ARC FLASH

- This equipment must be only be installed and serviced by qualified electrical personnel
- Follow safe electrical work practices. See NFPA 70E or applicable electrical codes
- Read & understand the instructions before installing this product
- Turn off all power supplying equipment before working on or inside the equipment
- Use a properly rated voltage sensing device to confirm power is off

INSTALLATION

1. Disconnect and lock out power to the system to be monitored.
2. Mount the Transducer on the DIN rail. If another location is desired, push out the two black clips on the bottom of the product. This provides 4.0mm holes for wall mounting.
3. Connect supply voltage (15 – 30VDC) wires to the terminals marked Power (+) and Gnd (-).
4. Connect the output (mA or VDC) wires to terminals marked OUT and Gnd (-).
5. Connect the input voltage wires to DC IN (+ & -). NOTE: both input connections are isolated from all other terminals

NOTE: Maximum #14ga wire for all terminals

NOTE: Required torque setting for all terminals is 0.5Nm

LIMITED WARRANTY

Tualatin Valley Labs (TVL) warrants this product it manufactures against defects in materials and workmanship for a period limited to five years from the date of shipment, provided the product has been stored, handled, installed and used under proper conditions. The company's liability under this limited warranty shall extend only to the repair or replacement of a defective product, at the company's option. The company disclaims all liability for any affirmation, promise or representation with respect to the product.

The customer agrees to hold Tualatin Valley Labs harmless from, defend, and indemnify TVL against damages, claims and expenses arising out of subsequent sales of TVL products or products containing products manufactured by TVL and based on personal injuries, deaths, property damages, lost profits and other matters which Buyer, its employees, or sub-contractors are or may be to any extent liable, including without limitations penalties imposed by the Consumer Product Safety Act (P.L. 92-573) and liability imposed upon any person pursuant to the Magnuson-Moss Warranty Act (P.L. 93-637), as now in effect or amended hereafter.

No warranties expressed or implied are created with respect to TVLs products except those expressly contained herein. The customer acknowledges the disclaimers and limitations contained herein and relies on no other warranties or affirmations.

DC1 TRANSDUCER SPECIFICATIONS

Primary voltage range: 0 – 1000VDC
Output: 0 – 1VDC, 0-5VDC, 0-10VDC, 4-20mA
Accuracy: 1% over range
Linearity: 0.5% over range
Response time: .09 mSec
Working range: 0 – 120%
Overload: 150% continuous
Temperature: -30C to +50C operating
Humidity: 90% operating
Isolation: 4.5KV, 1 minute
Supply voltage: 15 – 30VDC
Mechanical: DIN EN 50 022 or wall mounting
Dimensions: 0.709"W x 3.504"H x 2.126"D
Warranty – 5 years

Safety: Conforms to UL STD 508C
Certified to CSA STD C22.2 NO.14

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Recognized component

