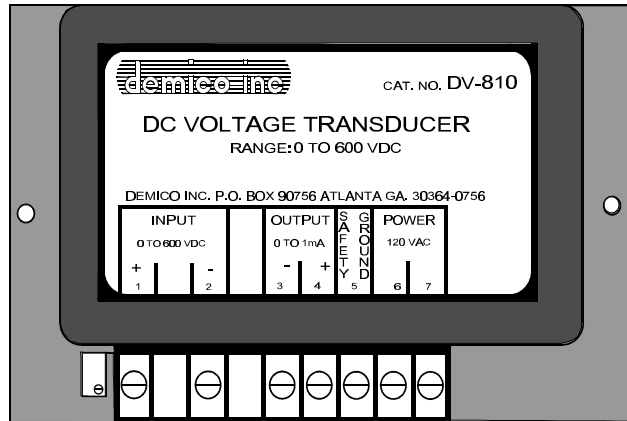


DC VOLTAGE TRANSDUCER



- ◆ ISOLATED ANALOG OUTPUT
- ◆ INPUT RANGE EXTENDS TO ZERO
- ◆ 10 MEG OHM INPUT IMPEDANCE
- ◆ 1% ACCURACY
- ◆ MULTITURN SETUP ADJUSTMENT
- ◆ 0-1 mA OUTPUT
- ◆ FULL SCALE FROM 10 MILLIVOLTS DC
- ◆ FULL SCALE UP TO 1000 VDC

APPLICATIONS:

REMOTELY DETECT FAULTY CAPACITORS ON CAPACITOR TRIP SWITCHGEAR, DETECT SUBSTATION BATTERY GROUND PROBLEMS, MONITOR CHARGING CURRENTS ON BATTERIES OR CAPACITORS.

The Demico DC Voltage Transducer (DV) is designed to monitor DC voltages throughout your system. Its high input impedance and wide input ranges make it ideal for monitoring low voltages across current shunts, as well as high voltages on capacitor trip circuits. The DV makes an excellent general purpose isolated transducer interface for any sensor with a current or voltage output; pressure, motion, flow, etc.

The DV series of transducers are available with nine standard input ranges and seven power supply ranges. Custom input ranges are available at no additional cost from ten millivolts to 1000 volts. The standard output is 0 to 1 milliamp for a burden

resistance from 0 to 10,000 ohms.

The DV series has galvanic, or ohmic, isolation between the input, output and power supply. Each DV is factory tested for isolation between these three sets of terminals exceeding 1500 VAC.

The one percent accuracy is specified across the wide operating temperature range to give dependable data year round even without a climate controlled environment.

A multi-turn potentiometer next to the terminal strip allows field adjustment to the full scale output current to compensate for burden resistor and RTU A/D variations. The non conductive phenolic case mounts easily with two screws, and the terminal strips have built in wire clamps for quick and reliable connections. The label clearly indicates the input range and the numbered input and output terminals for easy installation.

This transducer is designed for use in the electrically noisy substation environment and meets the surge withstand requirements of ANSI 37.90.1-1989. The

manufacturing process for Demico Transducers include:

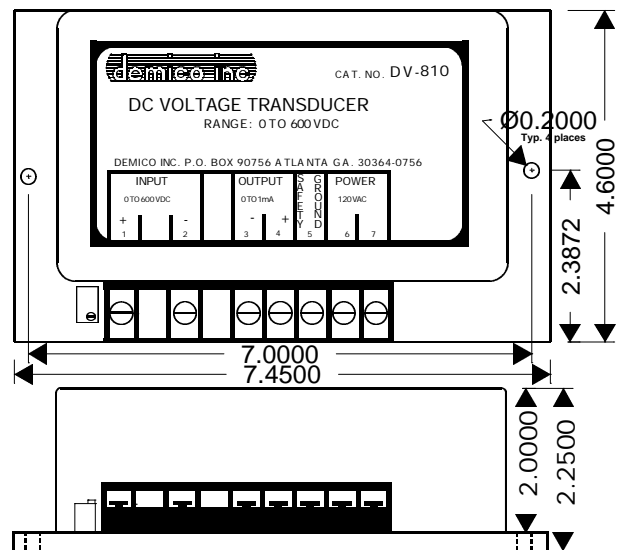
1. Boards are coated with a polyurethane coating.
 2. Each unit is operated for 100 hours at 110 degrees F.
 3. Power is cycled every 12 hours during burn in.
 4. Every transducer passes a 1500 VAC isolation test
- Demico takes these steps to ensure that our transducers provide good service over a long life. Demico's standard one year warranty includes parts and labor.

Note 1: For monitoring substation batteries, use Demico's Battery Transducer (BA series).

Note 2: For monitoring 24V Ni-Cad Batteries, use Demico's Battery Tester (BT series).

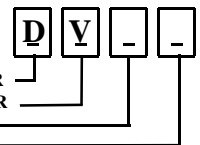
Specifications

Accuracy	+/- 1% of full scale
Surge Withstand	ANSI 37.90.1-1989
Enclosure	Black Phenolic
Terminals	8-32 with wire clamps
Warranty	1 year Parts & Labor
Input Impedance	10,000,000 ohms
Output Compliance Burden	0 to 10,000 ohms
Setup adjustment Range	+/- 10%
Operating Temperature	-20 to +70 degrees C
Humidity	(polyurethane coated)
Maximum power	4 VA
Tested Isolation :	
Power to Input	1500 Vac
Power to Output	1500 Vac



ORDERING INFORMATION

1ST LETTER = PRODUCT IDENTIFICATION LETTER
 2ND LETTER = PRODUCT IDENTIFICATION LETTER
 3RD NUMBER = POWER SUPPLY VOLTAGE
 4TH NUMBER = INPUT VOLTAGE



POWER SUPPLIES	DC VOLTAGE INPUTS
1 = 12 VDC	1 = 0 TO 15 VDC
2 = 24 VDC	2 = 0 TO 30 VDC
3 = 48 VDC	3 = 0 TO 60 VDC
4 = 125 VDC	4 = 0 TO 150 VDC
5 = 250 VDC	5 = 0 TO 400 VDC
8 = 120 VAC	6 = 0 TO 10 mVDC
9 = 240 VAC	7 = 0 TO 25 mVDC
	8 = 0 TO 50 mVDC
	9 = 0 TO 100 mVDC
	10 = SPECIFY