VOLTAGE TRANSDUCERS

DC or VARIABLE FREQUENCY VOLTAGE TRANSDUCER *MODELS* VT7, VT8

DC TO 10K HERTZ FREQUENCY RANGE

FEATURES

- VT7 Output is proportional to the input amplitude and frequency (ac in/ac out, dc in/dc out).
- VT8 Provides dc output which is proportional to **RMS** value of AC and/or dc input signal.
- Better than 10 kilohertz bandwidth.
- Input/output isolation of 2500V.

APPLICATIONS

- Monitoring of substation or electric circuit performance.
- Isolation and amplification of shunt output.
- Accurate measurement of voltage that may contain dc and non-sinusoidal AC components.
- Monitoring of RMS voltage. (VT8)

*Shunt Rated

*INPUT mV	STANDARD OUTPUTS MODEL VT7- OR VT8-			
	***1mA	4-20mA	***10V	***5V
0-50*	015B	015E	015D	015X5
0-100*	016B	016E	016D	016X5
0-200*	017B	017E	017D	017X5
0-250*	018B	018E	018D	018X5
INPUT VOLTS	**STANDARD OUTPUTS MODEL VT7- OR VT8-**			
	***1mA	4-20mA	***10V	***5V
0-10	001B	001E	001D	001X5
0-25	002B	002E	002D	002X5
0-50	003B	003E	003D	003X5
0-100	004B	004E	004D	004X5
0-150	005B	005E	005D	005X5
0-250	006B	006E	006D	006X5
0-300	007B	007E	007D	007X5
0-400	008B	008E	008D	008X5
0-500	009B	009E	009D	009X5
0-600	010B	010E	010D	010X5
0-700**	011B	011E	011D	011X5
0-800**	012B	012E	012D	012X5
0-900**	013B	013E	013D	013X5
0-1000**	014B	014E	014D	014X5

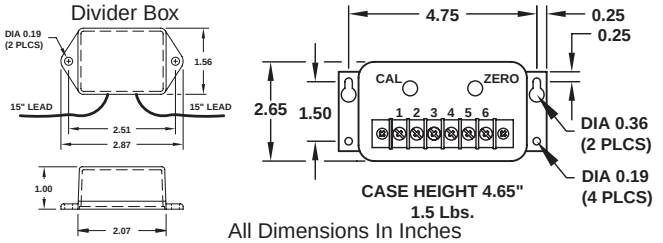
ORDERING INFORMATION
Example: 120Vdc Input with 4-20mA Output.
VT7-005E

**Highlighted models will be supplied with an externally mounted divider module.
50,100,200 and 250mV models can be used for shunt isolation.
All units have universal power supply 85-265Vac, 48-420Hz or 110-370Vdc

Optional DC Instrument Power Available
-12, -15, -24, -37, -48 (150mA)

***NOTE: VT7 Models are Bi-Directional

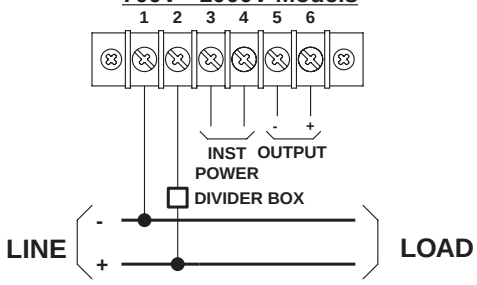
CASE DIMENSIONS



All Dimensions In Inches

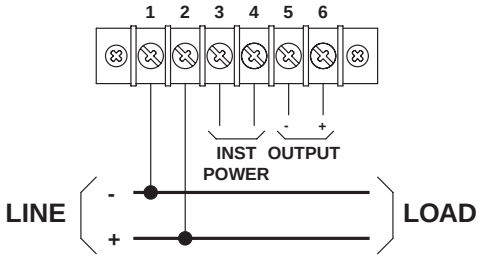
CONNECTION DIAGRAMS

700V - 1000V Models

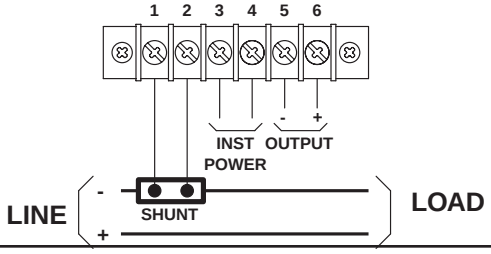


Note: All models above 600V input require a divider box in series with the input terminal #2. Do not connect the input voltage directly, damage to the transducer will result if not properly connected.

10V - 600V Models



Shunt Isolator **50mV - 250mV Models**



SPECIFICATIONS

INPUT

Voltage ..... See Table
Frequency Range dc-10kHz
Overload ... 0.05-600V ..... 2 X F.S. or 600Vac/850Vdc max.
700V-1000V(w/external multiplier box)...1.25 X F.S.
Burden (Ω) ..... > 100K
Dielectric Test.....(Direct Input/Output/Case) 2500Vac
Inst. Power.... 85-265Vac, 48-420Hz, 5VA or 110-370Vdc, 5VA
Temperature Effects...(-10°C to +60°C) ..... ± 1.0% Rdg.
Field Adjustable Cal..... ± 10%

OUTPUT

ACCURACY

Includes effects of linearity, setpoint and repeatability.
VT7 Models..... **± 0.25% F.S.@ DC**
VT8 Models ..... **± 0.25% F.S.@ 48-420Hz**

Response Time
VT7 Models.....(to 90%)..... 50µs
VT8 Models.....(to 90%).....100ms

Output Loading (Ω)
1mA 0-10K
10V, 5V ..... > 2K
4-20mA 0-500

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