VOLTAGE TRANSDUCERS

AC VOLTAGE TRANSDUCER — *MODEL* MVT

DIN RAIL MOUNTED AC VOLTAGE TRANSDUCER

FEATURES

- Ruggedized Polyamide DIN mount case.
- Slim profile allows maximum use of available space.
- Field selectable analog outputs. ("A" Suffix)
- Recessed terminals provide increased safety.

APPLICATIONS

- Ideal for use in enclosures with dimensional constraints.
- Designed for industrial environments.
- OEM measurement systems.
- Designed for use with potential transformers.
- Easily integrated into control systems.

INPUT	STANDARD OUTPUTS MODEL MVT-		
AC VOLTAGE	0-1mA*	4-20mA	4-20mA**
0 to 150	150A	150E	150E2
0 to 300	300A	†300E	300E2
0 to 600††	†600A	†600E	†600E2

†† Potential Transformers Included. † Not UL Listed.

ORDERING INFORMATION
Example: 0-150Vac Input with 4-20mA Output.
MVT-150E

c UL us LISTED

*Models are self-powered from measured AC input line with **DIP switch selectable 0-1mA, 0-5Vdc, or 0-10Vdc output.**
**Denotes 4-20mA loop-powered unit, (15-35Vdc). All other units require 85-135 VAC instrument power.
1" wide case can be mounted on Rail EN50035 (DIN 1) or Rail EN50022 (DIN2).
Transducer output is derived from the absolute value of the input and calibrated as the RMS value of a sine wave input.

SPECIFICATIONS

INPUT
Voltage ..... See Table
Frequency Range ..... 48 to 65Hz.;60Hz. Nom.
Burden ..... 150V models 1.0VA
300V,600V models 2.0VA
Voltage Overload ..... Full scale rating
Dielectric Test....(Input/Output) 1500Vac
Instrument Power ..... (E) 85-135VAC 50-400Hz., 3.5VA
(E2) ..... 15-40Vdc (Loop Powered)

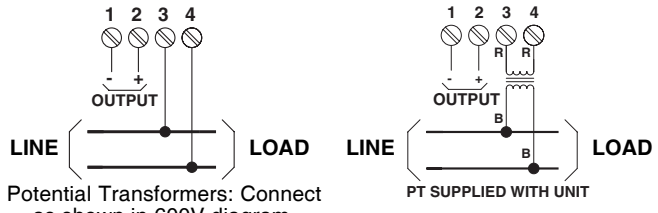
OUTPUT
Output Ripple ..... Less than 1.0% F.S.
Response Time...(99%) ..... 400 milliseconds
Field Adjustable Span ..... + 5%

Output Loading (OHMS)
4-20mA 0-500
4-20mA (24V Loop Power) 0-600
Field Selectable
0-1mA 0-10k
0-5Vdc ..... Greater than 5M
0-10Vdc ..... Greater than 10M

ACCURACY (@ 60Hz.) ..... +0.25% F.S.
Includes effects of linearity and setpoint(10% to 100% F.S.)
Temperature Effect ..... (-20°C to 65°C) ..... + 1.0%
E Output ..... (-20°C to 40°C) ..... + 1.0%
Weight ..... 0.4 Lbs.

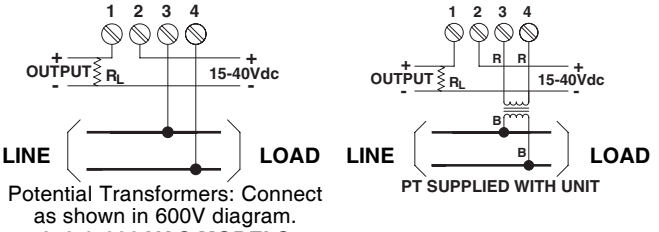
CONNECTION DIAGRAMS

SELF-POWERED MODEL MVT-***A



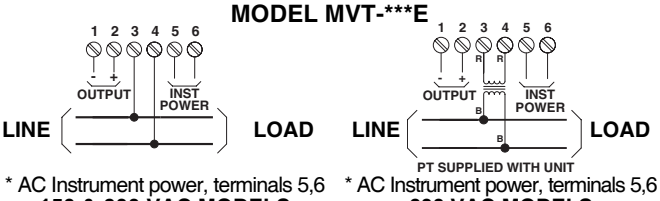
Potential Transformers: Connect as shown in 600V diagram.
150 & 300 VAC MODELS **600 VAC MODELS**

LOOP-POWERED MODEL MVT-***E2



Potential Transformers: Connect as shown in 600V diagram.
150 & 300 VAC MODELS **600 VAC MODELS**

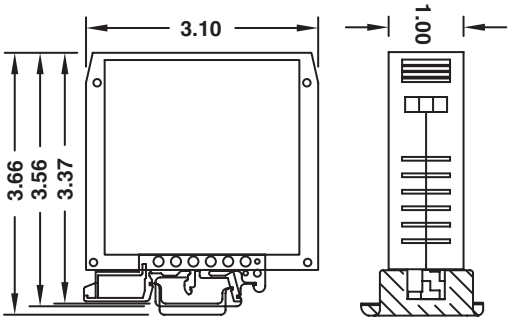
MODEL MVT-***E



* AC Instrument power, terminals 5,6 * AC Instrument power, terminals 5,6
150 & 300 VAC MODELS **600 VAC MODELS**

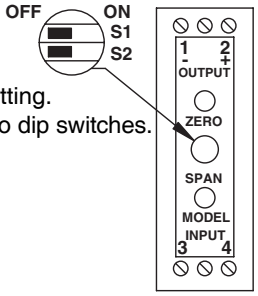
DIMENSIONS

UNIT CAN BE MOUNTED ON:
RAIL EN50035 (DIN 1) RAIL EN50022 (DIN 2)



All Dimensions In Inches

OUTPUT SELECTIONS MVT-***A



Units are shipped with 0-1mA setting.
Remove snap button for access to dip switches.

Output	Switch Pos. 1	Switch Pos. 2
0-1mA	OFF	OFF
0-5V	ON	ON
0-10V	ON	OFF

FLEX-CORE®
Div. Morlan & Associates, Inc.
6625 McVey Blvd. Columbus, Ohio 43235
WWW.FLEX-CORE.COM
sales@flex-core.com
PHONE (614) 889-6152
TECH. ASSISTANCE (614) 876-8308
FAX # (614) 876-8538