DIN-RAIL-MOUNTED AC VOLTAGE TRANSDUCER 0.25% ACCURACY

FEATURES

- · Ruggedized Polyamide DIN-mount case.
- · Slim profile allows maximum use of available space.
- · Field-selectable analog outputs.
- · 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.

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Transducer output is derived from the average absolute value of the input and calibrated as the RMS value of a sine wave input.

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

† 600V Models and MVT-300E are not included in UL Listing.

- * Models are self-powered from measured AC input line with DIP-switch-selectable 0-5Vdc or 0-10Vdc output.
- ** Denotes 4-20mA loop-powered unit, requires 15-40Vdc instrument power.
- "E" models require 85-135Vac instrument power.

Note: 600Vac models supplied with potential transformer (PT)

DIN-rail lengths available: Consult Factory





Measuring Equipment 7N93

ORDERING INFORMATION

Example: 0-150Vac Input with 4-20mA Output.

MVT-150E

SPECIFICATIONS

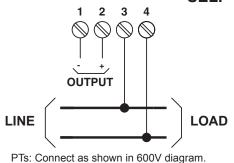
INPUT OUTPUT Response Time(to 99% F.S.)......400ms VoltageSee Table Frequency Range48 to 65Hz; 60Hz Nominal Field-Adjustable Span.....±5% Burden 150Vac models 1.0VA 300Vac, 600Vac models 2.0VA "A" models set for 0-1mA output......0-10k Ω Voltage Overload F.S. rating "A" models set for 0-5Vdc output.....>5MΩ "A" models set for 0-10Vdc output.....> $10M\Omega$ **DIELECTRIC TEST** "E" models (4-20mA output)0-500 Ω Input/Output1500Vac "E2" models (4-20mA Loop Powered)......0-600 Ω **INSTRUMENT POWER ACCURACY (@ 60Hz.)** ±0.25% F.S. Includes effects of linearity and setpoint (10% to 100% F.S.) "A" models...... Self-powered Output Ripple<1.0% F.S. "E" models......85-135Vac, 50/60Hz, 3.5VA "E2" models......15-40Vdc (Loop Powered) **TEMPERATURE EFFECT** "A" and "E2" models......(-20°C to +65°C)...... ±1.0% **PHYSICAL** "E" models......(-20°C to +40°C)...... ±1.0% 600Vac models with PT0.90 lb

OHIO SEMITRONICS, INC. 4242 REYNOLDS DRIVE * HILLIARD, OHIO * 43026-1264 PHONE: (614) 777-1005 * FAX: (614) 777-4511 www.ohiosemitronics.com * 1-800-537-6732

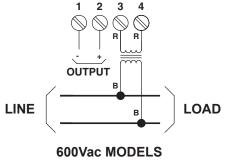
OSI CONNECTIONS & CASE DIMENSIONS

MODEL MVT

SELF-POWERED "A" MODELS

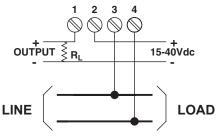


150 & 300Vac MODELS



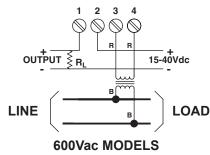
600Vac MODELS (PT supplied with unit)

LOOP-POWERED "E2" MODELS



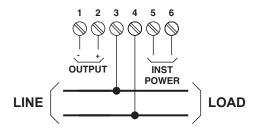




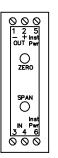


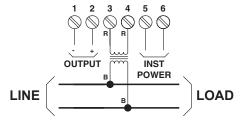
(PT supplied with unit)

"E" MODELS



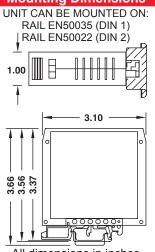
* AC Instrument power, terminals 5,6 150 & 300Vac MODELS



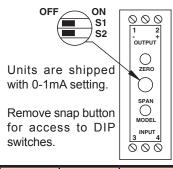


* AC Instrument power, terminals 5,6 **600Vac MODELS** (PT supplied with unit)

Mounting Dimensions

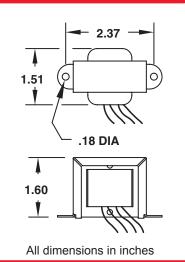


Output Selections, "A" Models



OUTPUT	SWITCH POS. 1	SWITCH POS. 2	
0-1mA	OFF	OFF	
0-5V	ON	ON	
0-10V	ON	OFF	

PT Dimensions



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INSTALLATION INSTRUCTIONS

- 1. Installation should be performed by qualified electricians only!
- 2. Make sure electrical service is disconnected before making any electrical connections.
- 3. Branch circuit protection is required to be provided in accordance with the National and Local codes of the inspection authority.
- 4. Route wires as required and secure to terminals per connection diagram on this sheet and on the unit.

OPERATING INSTRUCTIONS

- 1. This unit is intended for indoor use at altitudes up to 2000 meters.
- 2. Transient overvoltages according to Installation Category (overvoltage category) II, pollution Degree 2.
- 3. The output signal is intended to be "Not accessible to the user." To prevent contact with live circuits, the transducer is required to be mounted in an enclosure that requires the use of a tool for access.
- 4. If cleaning of the exterior surface is necessary, de-energize all services of supply (both measuring and instrument power circuits) and brush with a soft brush or blow off with low-pressure air. Use appropriate eye protection. Not suitable for hose-down cleaning.
- 5. Maximum relative humidity 80 percent for temperatures up to 31°C decreasing linearly to 50 percent relative humidity at 40°C.
- 6. Maximum operating temperature range is -20°C to 65°C (-20°C to 40°C for "E" suffix models).

WARRANTY STATEMENT

Ohio Semitronics Inc. warrants this unit to be free of defects in material and workmanship for a period of five years from date of shipment. This unit must not be used in any manner other than as specified in this document.