

OSI SINGLE-PHASE AC RMS VOLTAGE TRANSDUCER MODEL AVTR-

ACCURATE TO 0.25% FULL-SCALE

FEATURES

- Accurate measurement of the true RMS value of input signals over a wide frequency range.

APPLICATIONS

- For use in applications where measurement of nonsinusoidal waveforms is required.

5 YEAR WARRANTY



MODEL SELECTION

INPUT AC VOLTS	STANDARD OUTPUTS MODEL AVTR-			
	0-1mA _{dc}	0-10V _{dc}	4-20mA _{dc}	0-5V _{dc}
0-150	001B	001D	001E	001X5
0-300	002B	002D	002E	002X5
0-600	004B	004D	004E	004X5

ORDERING INFORMATION

Example: Single-phase 120Vac
Input with 0-10V_{dc} Output.
AVTR-001D

All standard units require 115Vac instrument power.
Optional 230Vac instrument power - Add suffix "-22".

SPECIFICATIONS

INPUT

Voltage..... See Table
Frequency Range 48 to 420 Hz
Burden 150Vac Range < 0.15VA
 300Vac Range < 0.30VA
 600Vac Range < 0.60VA
Overload 150Vac & 300Vac Models..... F.S. Rating
 600Vac Models 575V

DIELECTRIC TEST

Input/Output/Case 2200Vac

INSTRUMENT POWER

Standard 115Vac, ±15%, 50/60Hz, 3.5VA
Option "-22" 230Vac, ±15%, 50/60Hz, 3.5VA

OUTPUT

Response Time (90%) 100ms
Loading
 "B" models (0-1mA_{dc} output) 0-10kΩ
 "X5" & "D" models (0-5, 0-10V_{dc} output) 2kΩ min.
 "E" models (4-20mA_{dc} output) 0-500Ω
Field Adjustable Cal. ±10%

ACCURACY ±0.25%F.S. @ 60Hz

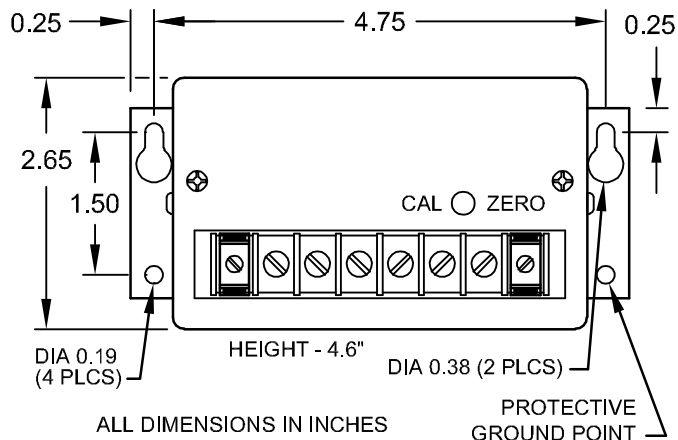
Includes effects of linearity and setpoint.
Typical ±0.5% over frequency range.

Output Ripple <1.0% F.S.

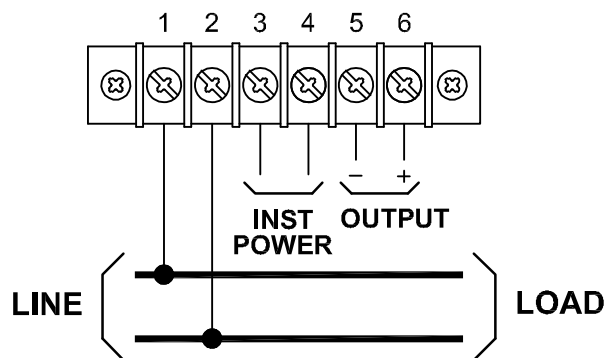
TEMPERATURE & PHYSICAL

Temperature Effect (-20°C to +60°C) ±1.0% Rdg.
Net Weight 1.5 Lbs

CASE DIMENSIONS




CONNECTION DIAGRAM



Dwg# 0902-00867-B Rev A

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INSTALLATION INSTRUCTIONS

1. Installation should be performed by qualified electricians only!
2. Verify that 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.
5. Attach the Protective Ground Point () to earth ground by mounting to a grounded enclosure or by attaching a ground wire. Paint barrier on can must be broken by using an internal-tooth lock-washer or similar device.

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 60°C.

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.