SINGLE PHASE AC RMS VOLTAGE TRANSDUCER MODEL AVTR-

ACCURATE TO 0.25% FULL SCALE

FEATURES

- **APPLICATIONS**
- Accurate measurement of the **true RMS** value of input signals over a wide frequency range.
- For use in applications where measurement of non-sinusoidal waveforms is required.



INPUT	STANDARD OUTPUTS MODEL AVTR-			
AC VOLTS	0-1mAdc	0-10Vdc	4-20mA	0-5Vdc
0 to 150 0 to 300 0 to 600	001B 002B 004B	001D 002D 004D	001E 002E 004E	001X5 002X5 004X5

All std. units require 115Vac instrument power. Optional 230Vac instrument power-Add suffix "-22". For suppressed voltage scale, 95Vac to 135Vac-Model VTRXP-001* Consult Factory **ORDERING INFORMATION**

Example: Single Phase 120Vac Input with 0-10Vdc Output. AVTR-001D

SPECIFICATIONS

YEAR

WARRANT

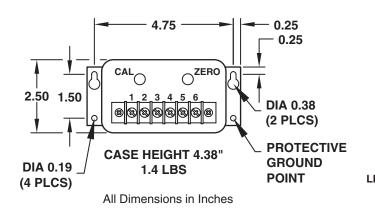
INPUT

VoltageSee Table		
Frequency Range		
Burden		
300Vac Range < 0.30VA		
600Vac Range < 0.60VA		
Overload 150Vac & 300Vac Model F.S. Rating		
600Vac Model Overload Rating575V		
Dielectric Test(Input/Output/Case)		
Instrument Power		
Standard 115Vac, <u>+</u> 15%,50/60 Hz,3.5VA		
Option "-22" 230Vac, ±15%,50/60 Hz,3.5VA		

OUTPUT

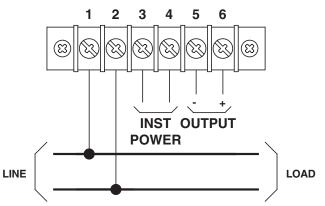
	<u>+</u> 0.25% F.S. @ 60 Hz
Ir	cludes effects of linearity and setpoint.
	Typical \pm 0.5% over frequency range
Output Ripple	< 1.0% F.S.
Response Time (90%)	100 milliseconds
Output Loading (Ohm	s)
0-1mA	0-10K
0-5Vdc, 0-10Vdc	
4-20mA	
Field Adjustable Cal	<u>±</u> 10%
Temperature Effect	(-20°C to +60°C) \pm 1.0% Rdg.

CASE DIMENSIONS



OHIO SEMITRONICS, INC.

CONNECTION DIAGRAM



4242 REYNOLDS DRIVE * HILLIARD, OHIO * 43026-1264 PHONE: (614) 777-1005 * FAX: (614) 777-4511 WWW.OHIOSEMITRONICS.COM * 1-800-537-6732

OSI SINGLE PHASE AC RMS VOLTAGE TRANSDUCER MODEL AVTR

INSTALLATION INSTRUCTIONS

- 1. Installation should be performed by gualified 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 lockwasher 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, 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.

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