OSI SINGLE-PHASE AC VOLTAGE TRANSDUCER

MODEL AVT

DESCRIPTION

The model AVT is a UL and CUL approved ac voltage transducer which provides an isolated dc output directly proportional to the input voltage. The output is derived from the average absolute value of the input and is calibrated as the RMS value of an input sine wave. With the exception of models which provide 4-20mA output, models are self-powered from the measured line.





FEATURES

- Accurate, reliable voltage measurement
 Inexpensive voltage measurement.
- Rugged metal construction
- Low Cost
- UL and CUL listed

- APPLICATIONS
- Industrial environments
- OEM measurement systems
- Energy management and control

MODEL SELECTION

INPUT	STANDARD OUTPUTS MODEL AVT-					
AC VOLTS	0-1mAdc	4-20mAdc	0-10Vdc	0-5Vdc	4-20mAdc	
0 - 90	090A	090E2	090C	090CX5	090E	
0 - 150	150A	150E2	150C	150CX5	150E	
0 - 300	300A	300E2	300C	300CX5	300E	
0 - 600	600A	600E2	600C	600CX5	600E	

"A", "C", and "CX5" models are self-powered

"E" models require 115Vac instrument power or add "-22" suffix for 230Vac

"E2" models require 15-40Vdc loop power

400Hz models are available - consult factory



ORDERING INFORMATION

Example: 0-150V Input, 4-20mA Output, 230Vac Instrument Power

AVT-150E-22

SPECIFICATIONS

INPUT

ee Table
.50/60Hz
1VA
2VA
3VA
.S. rating
575V

DIELECTRIC TEST

Input/Output/Inst. Pwr./Case 2200Vac

INSTRUMENT POWER

"A", "C" and "CX5"	' modelsSelf-powered
	15-40Vdc Loop Power
"E" models	115Vac ±15%, 50/60Hz, 10VA
"-22" Option	230Vac ±15%, 50/60Hz, 10VA

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OUTPUT

Response		400ms
Loading		
"A" models	0-1mAdc	0-10kΩ
"C" / "CX5" models.	10Vdc / 5Vdc	≥10MΩ
"E" models	4-20mAdc	0-1kΩ
"E2" models	4-20mAdc @ 24Vdc).	0-600Ω
Field Adjustable Span	· · · · · ·	±5%

ACCURACY

Linearity/Setpoint/Repeatability±0.25% F.S. @ 60H			
(10%-100% of input range))		
Output Ripple≤1.0% F.S			

TEMPERATURE

Operating range and Effect:

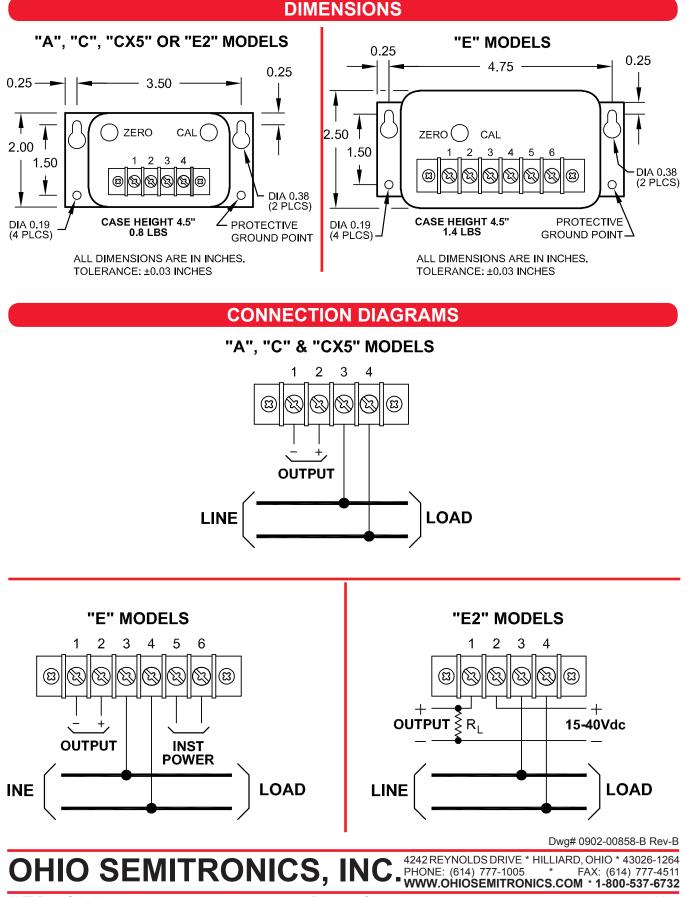
"A"/"C"/"CX5"...-20 to +60°C.....±1.0% Rdg.

E″ /	"E2"	20 to) +60°	C ±1	.0%	Rdg.,	±0.02m/	ł
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MODEL AVT-

DIMENSIONS and CONNECTIONS



INSTALLATION INSTRUCTIONS

- 1. Installation should be performed by qualified electricians only!
- 2. Electrical service <u>must be disconnected</u> 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) 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 must 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 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.

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