

### **OM9-32 "AC POWER" SERIES**

# **True RMS AC Voltage Transducer** 0.2% Accuracy Class

Specification Sheet M1705/1093



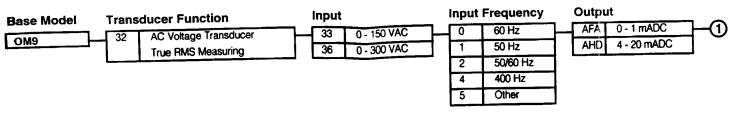
#### 1. GENERAL

The Model OM9-32 Series is an externally powered AC Voltage Transducer with an analog output corresponding to the true RMS value of the input signal.

#### 2. SPECIFICATIONS

Input Burden	150 VAC : < 0.8 VA	
	300 VAC: < 1.6 VA	
Input Over Range Capability	120% of Rated Input Continuous	
Output Compliance	0 - 1 mADC = 10 VDC	
	4 - 20 mADC = 15 VDC	
Accuracy 10 - 100% of Rated Input	0 - 1 mADC = ± 0.2% of Fullscale	
	4 - 20 mADC = ± 0.2% of Span	
External Calibration Adjust	ZERO: ± 5% of Minimum	
	SPAN: ± 10% of Minimum	
Response Time	< 400 mSEC (0 - 99% of Output)	
Output Ripple	± 0.5% of Span peak to peak max.	
Isolation	2500 VAC Input to Output, Power & Case	
	2000 VAC Aux. Power to Output & Case	
	500 VAC Output to Case	
SWC	IEEE472 / ANSI C37.90.1 - 1989	
	JIS C1111 (5KV, 1.2 x 50 μSEC)	
Insulation Resistance	> 10MΩ / 500 VDC	
	Input / Output / Power / Case	
Operating Temp.	-20° to + 60°C (-4.0 to +140°F)	
Operating Humidity	0 - 90% Relative Humidity (Non-Condensing)	
Temp. Drift	± 140 PPM / °C of Fullscale or Span	
Weight	900 g. (1.97 lb)	
External Magnetic Field	< 0.2% at 400 AT/m	
Shock	< 0.2% after 50 G, 6 Axis, 3 Repetitions	
Vibration	< 0.2% after 16.7 Hz, 4 mmp-p 1 HR, 3 Axis	
Influence of Frequency	< 0.2%, 45-65 Hz, Fundamental thru 9th Harmonic	

#### 3. ORDER FORMAT OM9-32

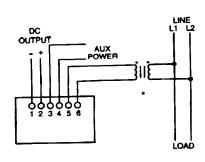


#### **Auxiliary Power**

1	1	85 - 135 VAC
	. 2	170 - 264 VAC

## 5. MOUNTING & OUTLINE

#### 4. WIRING DIAGRAM



(111.6)8 Φ (120.65)(133) 5,236

Dimensions shown in inches (mm)

\* Wiring Diagram shows optional potential transformer.



#### Servicing USA and Canada: Call OMEGA Toll Free

#### USA

## One Omega Drive, Box 4047 Stamford, CT 06907-0047 U: Telephone: (203) 359-166 FAX: (203) 359-7700

Canada 976 Bergar Street Laval (Quebec) H7L 5A1 Telephone: (514) 856-6928 FAX: (514) 856-6886

Sales Service: 1-800-826-6342 / 1-800-7T-C-OMEGA\*
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#### Servicing Europe: United Kingdom Sales and Distribution Center

25 Swannington Road, Broughton Astley, Leicestershir LE9 6TU, England Telephone: 44 (0455) 285520 FAX: 44 (0455) 283912

#### RETURN REQUESTS / INQUIRIES

Direct all warranty and repair requests/inquiries to the OMEGA ENGINEERING Customer Service Department. Call toll free in the USA and Canada: 1-800-622-2378, FAX: 203-359-7811; International: 203-359-1660, FAX: 203-359-7807. BEFORE RETURNING ANY PRODUCT(S) TO OMEGA, YOU MUST OBTAIN AN AUTHORIZED RETURN (AR) NUMBER FROM OUR CUSTOMER SERVICE DEPARTMENT (IN ORDER TO AVOID PROCESSING DELAYS). The assigned AR number should then be marked on the outside of the return package and on any correspon-

FOR WARRANTY RETURNS, please have the following information available BEFORE contacting OMEGA:

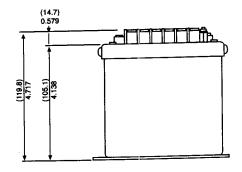
- 1. P.O. number under which the product was PURCHASED,
- Model and serial number of the pro-duct under warranty, and
- 3 Repair instructions and/or specific problems you are having with the product.
- FOR NON-WARRANTY REPAIRS OR CALIBRATION, consult OMEGA for current repair/calibration charges. Have the following information available BEFORE contacting OMEGA:
- 1. P.O. number to cover the COST of
- the of the repair/calibration,

  2. Model and serial number of product,
- 3. Repair instructions and/or specific problems you are having with the

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#### **WARRANTY**

OMEGA warrants this unit to be free of defects in materials and workmanship and to give satisfactory services for a period of 13 months from date of purchase. OMEGA Warranty adds an additional one (1) month grace period to the normal one (1) year product warranty to cover handling and shipping time. This ensures that our customers receive maximum coverage on each product. If the unit should malfunction, it must be returned to the factory for evaluation. Our Customer Service Department will issue an Authorized Return (AR) number immediately upon phone or written request. Upon examination by OMEGA, if the unit is found to be defective it will be repaired or replaced at no charge. However, this WARRANTY is VOID if the unit shows evidence of having been tampered with or shows evidence of being damaged as a result of excessive corrosion; or current, heat, moisture or vibration; improper specification; misapplication; misuse or other operating conditions outside of OMEGA's control. Components which wear or which are damaged by misuse are not warranted. These include contact points, fuses, and triacs. points, fuses, and triacs.

points, fuses, and triacs.

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