

ac Voltage and Current Measurement Transducers



OM8 series
\$105
 Basic Unit

- ✓ Average Measurement
- ✓ Isolation
- ✓ 0-1 mA and 4-20 mA Outputs Available

The OM8 series transducers convert AC currents and voltages to dc process signals for direct connection to data acquisition and recording systems. The OM8 employ average measurement techniques in conditioning the ac signal. For measurement of currents and voltages greater than listed, the OM8 are directly compatible with OMEGA instrument transformers.

Specifications

Accuracy: 0.2% of Reading

Sustained Input Overrange:

Voltage, 120% continuous, 150% for 5 seconds; Current, 200% continuous, 1000% for 5 seconds

Outputs: 0 to 1 mA dc into 10 Kohm 10 Vdc compliance; 4-20 mA into 750 ohm Max 15 Vdc compliance

Zero Adjust: ±5% minimum

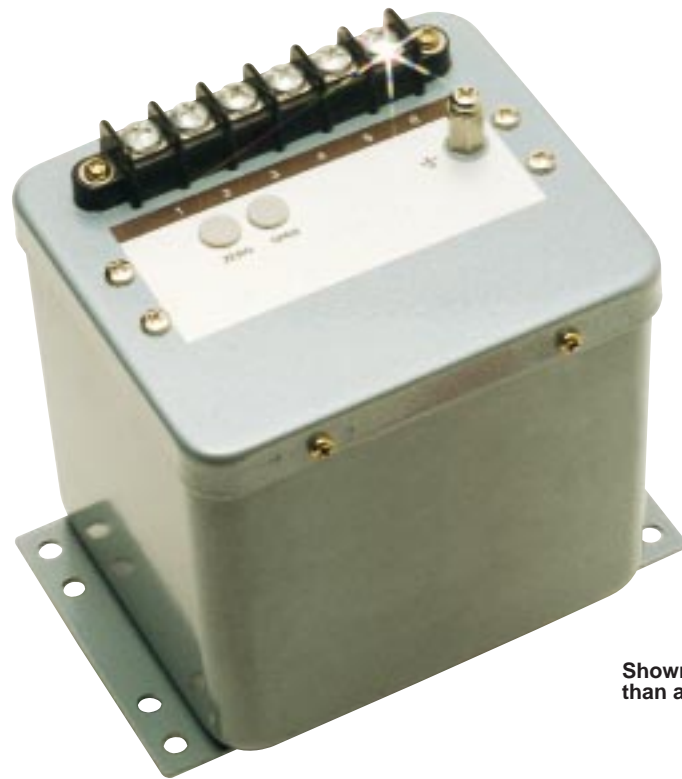
Span Adjust: ±10% minimum

Response Time: <400 msec (0-99% of full scale)

Power Consumption: 5 VA max

Isolation: Input to output: 2500 Vac, 60 Hz, 1 min; Input to power: 2500 Vac, 60Hz, 1 min; Input to case: 2500 Vac, 60 Hz, 1 min; Power to Output: 2000 Vac, 60 Hz, 1 min; Power to case: 2000 Vac, 60 Hz, 1 min; Output to case: 500 Vac, 60 Hz, 1 min

Dimensions: Self powered units: 104 H x 101 D x 51 mm D (4.1" x 4.0" x 2.0"); auxiliary powered units: 120 H x 133 W x 96 mm D (4.7" x 5.2" x 3.8")



Shown smaller than actual size

ac Current (Average Measuring) Transducers

Model No.	Input Signal	Input Frequency	Output Signal	Power Required	Price
OM8-21382AFA0	0-5 Amp ac	50/60 Hz	0-1 mA dc	Self powered	\$105
OM8-21384AFA0	0-5 Amp ac	400 Hz	0-1 mA dc	Self powered	170
OM8-21382AHD1	0-5 Amp ac	50/60 Hz	4-20mA dc	120 Vac	240
OM8-21384AHD1	0-5 Amp ac	400 Hz	4-20mA dc	120 Vac	305
OM8-21382AHD2	0-5 Amp ac	50/60 Hz	4-20mA dc	240 Vac	240
OM8-21384AHD2	0-5 Amp ac	400 Hz	4-20mA dc	240 Vac	305

ac Voltage (Average Measuring) Transducers

Model No.	Input Signal	Input Frequency	Output Signal	Power Required	Price
OM8-22332AFA0	0-150 Vac	50/60 Hz	0-1 mA dc	Self powered	\$105
OM8-22334AFA0	0-150 Vac	400 Hz	0-1 mA dc	Self powered	170
OM8-22332AHD1	0-150 Vac	50/60 Hz	4-20mA dc	120 Vac	240
OM8-22334AHD1	0-150 Vac	400 Hz	4-20mA dc	120 Vac	305
OM8-22332AHD2	0-150 Vac	50/60 Hz	4-20mA dc	240 Vac	240
OM8-22334AHD2	0-150 Vac	400 Hz	4-20mA dc	240 Vac	305
OM8-22362AFA0	0-300 Vac	50/60 Hz	0-1 mA dc	Self powered	105
OM8-22364AFA0	0-300 Vac	400 Hz	0-1 mA dc	Self powered	170
OM8-22362AHD1	0-300 Vac	50/60 Hz	4-20mA dc	120 Vac	240
OM8-22364AHD1	0-300 Vac	400 Hz	4-20mA dc	120 Vac	305
OM8-22362AHD2	0-300 Vac	50/60 Hz	4-20mA dc	240 Vac	240
OM8-22364AHD2	0-300 Vac	400 Hz	4-20mA dc	240 Vac	305



UNITED STATES

www.omega.com
1-800-TC-OMEGA
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CANADA

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1-800-TC-OMEGA

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• Temperature

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• Flow and Level

Air Velocity Indicators, Doppler Flowmeters, Level Measurement, Magnetic Flowmeters, Mass Flowmeters, Pitot Tubes, Pumps, Rotameters, Turbine and Paddle Wheel Flowmeters, Ultrasonic Flowmeters, Valves, Variable Area Flowmeters, Vortex Shedding Flowmeters

• pH and Conductivity

Conductivity Instrumentation, Dissolved Oxygen Instrumentation, Environmental Instrumentation, pH Electrodes and Instruments, Water and Soil Analysis Instrumentation

• Data Acquisition

Auto-Dialers and Alarm Monitoring Systems, Communication Products and Converters, Data Acquisition and Analysis Software, Data Loggers Plug-in Cards, Signal Conditioners, USB, RS232, RS485 and Parallel Port Data Acquisition Systems, Wireless Transmitters and Receivers

• Pressure, Strain and Force

Displacement Transducers, Dynamic Measurement Force Sensors, Instrumentation for Pressure and Strain Measurements, Load Cells, Pressure Gauges, Pressure Reference Section, Pressure Switches, Pressure Transducers, Proximity Transducers, Regulators, Strain Gages, Torque Transducers, Valves

• Heaters

Band Heaters, Cartridge Heaters, Circulation Heaters, Comfort Heaters, Controllers, Meters and Switching Devices, Flexible Heaters, General Test and Measurement Instruments, Heater Hook-up Wire, Heating Cable Systems, Immersion Heaters, Process Air and Duct, Heaters, Radiant Heaters, Strip Heaters, Tubular Heaters