

# ac Current and Voltage Transducers

## True RMS Measurement

OM9 Series  
**\$310**

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

The OM9 Series transducers convert ac currents and voltages to dc process signals for direct connection to data acquisition and recording systems. The OM9 employ true RMS measurement techniques in conditioning the ac signal. True RMS measurement provides accurate readings for signals which contain harmonic distortion. For measurement of currents and voltages greater than listed, the OM9 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, 60 Hz, 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:** 12 H x 13.3 W x 9.6 cm D (4.717" x 5.236" x 3.769")



Shown smaller than actual size

### ac Current (True RMS) Transducers

Model No.	Input Signal	Input Frequency	Output Signal	Power Required	Price
OM9-31382AFA1	0-5 Amps ac	50/60 Hz	0-1 mA dc	120 Vac	\$320
OM9-31384AFA1	0-5 Amps ac	400 Hz	0-1 mA dc	120 Vac	385
OM9-31382AFA2	0-5 Amps ac	50/60 Hz	0-1 mA dc	240 Vac	320
OM9-31384AFA2	0-5 Amps ac	400 Hz	0-1 mA dc	240 Vac	385
OM9-31382AHD1	0-5 Amps ac	50/60 Hz	4-20 mA dc	120 Vac	455
OM9-31384AHD1	0-5 Amps ac	400 Hz	4-20 mA dc	120 Vac	520
OM9-31382AHD2	0-5 Amps ac	50/60 Hz	4-20 mA dc	240 Vac	455
OM9-31384AHD2	0-5 Amps ac	400 Hz	4-20 mA dc	240 Vac	520

### ac Voltage (True RMS) Transducers

Model No.	Input Signal	Input Frequency	Output Signal	Power Required	Price
OM9-32332AFA1	0-150 Vac	50/60 Hz	0-1 mA dc	120 Vac	\$320
OM9-32334AFA1	0-150 Vac	400 Hz	0-1 mA dc	120 Vac	385
OM9-32332AFA2	0-150 Vac	50/60 Hz	0-1 mA dc	240 Vac	320
OM9-32334AFA2	0-150 Vac	400 Hz	0-1 mA dc	240 Vac	385
OM9-32332AHD1	0-150 Vac	50/60 Hz	4-20 mA dc	120 Vac	455
OM9-32334AHD1	0-150 Vac	400 Hz	4-20 mA dc	120 Vac	520
OM9-32332AHD2	0-150 Vac	50/60 Hz	4-20 mA dc	240 Vac	455
OM9-32334AHD2	0-150 Vac	400 Hz	4-20 mA dc	240 Vac	520
OM9-32362AFA1	0-300 Vac	50/60 Hz	0-1 mA dc	120 Vac	320
OM9-32364AFA1	0-300 Vac	400 Hz	0-1 mA dc	120 Vac	385
OM9-32362AFA2	0-300 Vac	50/60 Hz	0-1 mA dc	240 Vac	320
OM9-32364AFA2	0-300 Vac	400 Hz	0-1 mA dc	240 Vac	385
OM9-32362AHD1	0-300 Vac	50/60 Hz	4-20 mA dc	120 Vac	455
OM9-32364AHD1	0-300 Vac	400 Hz	4-20 mA dc	120 Vac	520
OM9-32362AHD2	0-300 Vac	50/60 Hz	4-20 mA dc	240 Vac	455
OM9-32364AHD2	0-300 Vac	400 Hz	4-20 mA dc	240 Vac	520



#### UNITED STATES

[www.omega.com](http://www.omega.com)  
1-800-TC-OMEGA  
Stamford, CT.

#### CANADA

[www.omega.ca](http://www.omega.ca)  
Laval(Quebec)  
1-800-TC-OMEGA

#### GERMANY

[www.omega.de](http://www.omega.de)  
Deckenpfronn, Germany  
0800-8266342

#### UNITED KINGDOM

[www.omega.co.uk](http://www.omega.co.uk)  
Manchester, England  
0800-488-488

#### FRANCE

[www.omega.fr](http://www.omega.fr)  
Guyancourt, France  
088-466-342

#### CZECH REPUBLIC

[www.omegaeng.cz](http://www.omegaeng.cz)  
Karviná, Czech Republic  
596-311-899

#### BENELUX

[www.omega.nl](http://www.omega.nl)  
Amstelveen, NL  
0800-099-33-44



## More than 100,000 Products Available!

### • Temperature

Calibrators, Connectors, General Test and Measurement Instruments, Glass Bulb Thermometers, Handheld Instruments for Temperature Measurement, Ice Point References, Indicating Labels, Crayons, Cements and Lacquers, Infrared Temperature Measurement Instruments, Recorders Relative Humidity Measurement Instruments, RTD Probes, Elements and Assemblies, Temperature & Process Meters, Timers and Counters, Temperature and Process Controllers and Power Switching Devices, Thermistor Elements, Probes and Assemblies, Thermocouples Thermowells and Head and Well Assemblies, Transmitters, Wire

### • 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