

# Multimeter/Dual Input Thermometer

HHM31  
\$125



- ✓ 3½ Digit Display with Backlighting
- ✓ Dual Type K Thermocouple Input
- ✓ Measures AC/DC, Voltage/Current, Resistance, Frequency, and Capacitance
- ✓ Rugged, Easy-to-Use Design
- ✓ °C/°F Switchable

The OMEGA® HHM31 is a versatile multimeter and dual input thermometer in a rugged handheld case. In addition, it offers a diode test and audible continuity check function. Ohm, diode, continuity and frequency input protection is up to 500 Vdc/Vac rms. Other features include capacitance measurement from 1 pF to 20 µF and auto-range on frequency range and measurement to 15 MHz.

## Specifications

### Temperature

**Input Range:** -50 to 1300°C (-58 to 1999°F)

### Type K Thermocouple Input

#### Accuracy:

±(0.3% rdg + 1°C) -50 to 1000°C

±(0.5% rdg + 1°C) 1000 to 1300°C

±(0.3% rdg + 2°F) (-58 to 1999°F)

According to temperature standard ITS-90

### DC Voltage

**Range:** 200 mV, 2 V, 20 V, 200 V, 600 V

**Resolution:** 100 µV

**Accuracy:** ±(0.35%rdg+1dgt)

**Input Impedance:** 10 MΩ

### AC Voltage (50 Hz - 500 Hz)

**Range:** 200 mV, 2 V, 20 V, 200 V, 600 V

**Resolution:** 100 µV

**Accuracy:** ±(1.0% rdg + 4 dgts)

on 200 mV to 200 V ranges; ±(2.0% rdg + 4 dgts) on 600 V range

**Input Impedance:** 10 MΩ

### DC Current

**Range:** 200 µA, 20 mA, 200 mA, 10 A

**Accuracy:** ±(0.5% rdg + 1 dgt) on µA, mA ranges

±(3.0% rdg + 1 dgt) on 10 A range

**Burden Voltage:** 325 mV on all ranges, except 700 mV on 10A range

**Fuse Rating:** 0.5 A/250 V, 10 A/600 V (fast acting)

### AC Current (50 to 500 Hz)

**Range:** 200 µA, 20 mA, 200 mA, 10 A

**Accuracy:** ±(1.2% rdg + 4 dgts)

on µA, mA ranges

±(3.5% rdg + 4 dgts) on 10 A range

**Burden Voltage:** 325 mV on all ranges, except 700 mV on 10 A range

**Fuse Rating:** 0.5 A/250 V, 10 A/600 V (fast acting)

### Resistance

**Range:** 200 Ω, 2 KΩ, 20 KΩ, 200 KΩ, 2 MΩ, 20 MΩ

#### Accuracy:

±(0.4% rdg + 4 dgts) on 200 Ω range

±(0.4% rdg + 1 dgt) on 2 KΩ

to 2 MΩ ranges

±(3.0% rdg + 4 dgts) on 20 MΩ range

### Frequency (Autoranging)

**Range:** 2 KHz, 20 KHz, 200 KHz, 2000 KHz, 15 MHz

**Sensitivity:** 1.0 Vrms (TTL level)

**Accuracy:** ±(0.1% rdg + 1 dgt)

**Effect Reading:** 10-1999

### Capacitance

**Range:** 2 nF, 20 nF, 200 nF, 2 µF, 20 µF

**Accuracy:** ±(2.0% rdg + 10 dgts)

### Dimensions

**Size:** 195 H x 92 W x 55 D mm (7.7 x 3.6 x 2.1")

**Weight:** Approx 9 oz (250 g)

**Power:** 9 V alkaline battery (included)

**AVAILABLE FOR FAST DELIVERY!**

## To Order (Specify Model Number)

Model No.	Price	Description
HHM31	\$125	Multimeter/thermometer
HHM-TL	5	Spare test leads
SC-HH500	12	Soft carrying case
CAL-3-HHM	125	NIST-traceable calibration

Comes with operator's manual, 2 beaded wire thermocouples, safety test leads, 9 V alkaline battery and rubber boot.

**Ordering Example:** HHM31, dual input multimeter/thermometer and HHM-TL, spare test leads, \$125 + 5 = \$130.

HHM31, \$125, shown smaller than actual size.



Test leads included.

### Thermocouple Included!

The HHM31 includes 2 free 1 m (40")

Type K insulated beaded wire thermocouples with subminiature connector and wire spool caddy (1 per channel).

Order a Spare! Model No. SC-GG-K-30-36, \$15.



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