

# Thermo/Multimeter

HHM32



Optional

- ✓ 4-Digit Display with Backlighting
- ✓ Bargraph Display
- ✓ K Thermocouple Input °F
- ✓ Measures AC/DC Voltage, Current, Resistance, Continuity, Frequency or Capacitance

The OMEGA® HHM32 is a versatile multimeter and thermometer in a rugged handheld case. In addition, it offers a diode test, audible continuity check function, logic test function and hFE test function. Ohm, diode, continuity, logic and frequency input protection to 500 Vdc/Vac rms. Unit provides maximum/minimum recording, relative and data HOLD mode with 100  $\mu$ s PEAK HOLD maximum/minimum recording.

## Specifications

### DC Voltage

**Range:** 400 mV, 4V, 40V, 400V, 600V

**Resolution:** 100  $\mu$ V

**Accuracy:**  $\pm(0.25\%$  rdg + 1 dgt)

**Input Impedance:** 10 M $\Omega$

### AC Voltage (50 to 500 Hz)

**Range:** 400 mV, 4V, 40V, 400V, 600V

**Resolution:** 100  $\mu$ V

**Accuracy:**  $\pm(0.75\%$  rdg + 4 dgts) on 400 mV to 400V ranges;

$\pm(1.2\%$  rdg + 4 dgts) on 600V range

**Input Impedance:** 10 M $\Omega$

### DC Current

**Range:** 4 mA, 40 mA, 4 A, 10 A

**Accuracy:**

$\pm(0.5\%$  rdg + 1 dgt) on mA ranges

$\pm(3.0\%$  rdg + 1 dgt) on A range

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

**Fuse Rating:** 0.1 A/250V, 10 A/600V (fast-acting)

### AC Current (50 to 500 Hz)

**Range:** 4 mA, 40 mA, 4 A, 10 A

**Accuracy:**

$\pm(1.2\%$  rdg + 4 dgts) on mA ranges

$\pm(1.2\%$  rdg + 4 dgts) on A range

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

**Fuse Rating:** 0.1 A/250V, 10 A/600V (fast-acting)

HHM32 shown smaller than actual size.

## Resistance

**Range:** 40 $\Omega$ , 400 $\Omega$ , 4 k $\Omega$ , 40 k $\Omega$ , 400 k $\Omega$ , 4000 k $\Omega$ , 40 M $\Omega$

**Accuracy:**

$\pm(0.8\%$  rdg + 4 dgts) on 40 $\Omega$  range

$\pm(0.3\%$  rdg + 4 dgts) on 400 $\Omega$  range

$\pm(0.3\%$  rdg + 1 dgts) on 4 to 4000 k $\Omega$  ranges

$\pm(1.0\%$  rdg + 4 dgts) on 40 M $\Omega$  range

## Continuity

**Audible indication:** Less than

40 $\Omega$   $\pm$  20 $\Omega$

## Diode Test

**Test Current:** 1.0 mA  $\pm$  0.6 mA

**Accuracy:**  $\pm(3.0\%$  rdg + 3 dgts)

**Open Circuit Volts:** 3.0 Vdc typical

## Frequency (Autoranging)

**Range:** Auto-ranging up to 40 MHz

**Resolution:** 1 Hz

**Sensitivity:** 1 Vrms minimum

**Accuracy:**  $\pm(0.05\%$  rdg + 3 dgts)

**Effect Reading:** 10 to 3999

## Capacitance

**Range:** 400 pF, 40 nF, 4  $\mu$ F,

4000  $\mu$ F, 40 mF

**Resolution:** 0.1 pF

**Accuracy:**  $\pm(2.0\%$  rdg + 5 dgts)

on 400 pF to 4  $\mu$ F ranges

$\pm(5.0\%$  rdg + 5 dgts) on 4000  $\mu$ F

to 40 mF ranges

**Test Voltage:** <3.5 Vdc

## Logic Test

**Threshold:** Logic Hi ( $\blacktriangle$ ) 2.8

$\pm$  0.8 V Logic Lo ( $\blacktriangledown$ ) 0.8  $\pm$  0.5 V

**Frequency Response:** 20 MHz

## Temperature (°F Only)

**Range:** -5 to 2375° F

**Resolution:** 1° F

**Accuracy:**

$\pm(2.0\%$  rdg + 3 dgts) on -5 to 930°F;

$\pm(3.0\%$  rdg + 2 dgts) on 930 to 2375°F

**Dimensions:**

195 H x 92 W x 53 mm D

(7.7 x 3.6 x 2.1")

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

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

## To Order

Model No.	Description
HHM32	Thermometer/multimeter
CAL-3-HHM	NIST-traceable calibration
SC-HH500	Soft carrying case
HHM-TL	Spare test leads

Comes with Type K beaded wire thermocouple, test lead set, 9V alkaline battery, rubber boot and operator's manual.

**Ordering Example:** HHM32, thermometer/multimeter. HHM-TL, spare test leads.