# HHM31 Multimeter/ Dual Input Thermometer

**Model HHM31**

**$125**

**Basic Unit**

- **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 V dc/ac rms. Other features include capacitance measurement from 1 pF to 20 µF and autorange 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 Hz-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+1dgt) 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+1dgt)
**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)




Test leads included

**Thermocouple Included!**
The HHM31 includes two free 1 m (40") Type K insulated beaded wire thermocouples with subminiature connector and wire spool caddy (one per channel).
**Order a Spare! Model No. SC-GG-K-30-36, $15**

***AVAILABLE FOR FAST DELIVERY!***

**To Order** *(Specify Model Number)*

| Model Number | 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 complete user's manual, 2 beaded wire thermocouples, safety test leads, alkaline battery and rubber boot.*

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

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