



HHM290 SUPERMETER®

**Next Generation SUPERMETER®
With Laser Sighting
3 METERS IN 1 Patented**

**Non-contact
Temperature
Measurement**

**Differential
Temperature
Measurement**

**True RMS
Measurement!**



- ✓ Full Function Auto-Ranging Digital Multimeter
- ✓ Infrared Pyrometer with Patented Switchable Laser Circle/ Dot Sighting
- ✓ Dual Input Thermometer with Differential Temperature Function

**User Switchable
Laser Sighting!**

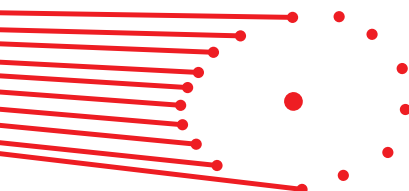
Laser Dot

Range: Up to 23 m (75 ft.)



Laser Circle

Range: Up to 7.6 m (25 ft.)



U.S. and Foreign
Patents and
Patents Pending



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refer to The Green Book®

**SUPERMETER®
3 METERS IN 1!**



- Includes:**
- Test Lead Set
 - Two (2) Type K Beaded Wire Thermocouples with Spool Caps
 - Six (6) "AA" Batteries
 - Color Coded Rubber Boot
 - Spare Fuse
 - Operator's Manual
 - ✓ Built-in Non-Contact Infrared Pyrometer
 - ✓ Full Function Multimeter Featuring Min, Max, and Average Readings
 - ✓ Dual Type K Thermocouple Inputs and Selectable Temperature Display (T1 & T2) as well as Differential Temperature (T1-T2)

User Switchable Laser Sighting

Laser Dot
Range: Up to 23 m (75 ft.)



Laser Circle
Range: Up to 7.6 m (25 ft.)



Technology Breakthrough!

"It's a technician's dream come true!" OMEGA's new, patented, "all-in-one" SUPERMETER® Model HHM290 combines the power of a True RMS full function Multimeter, Non-contact Infrared Pyrometer with laser sighting and a Dual input Type-K Thermocouple meter with a differential measurement feature into one power-packed handheld instrument. The Multimeter

measures...DC/AC Voltage, Current, Resistance, Frequency, Capacitance and features a built-in Logic & Diode tester. The Infrared Pyrometer offers adjustable emissivity, a wide temperature range, a 10:1 field of view and a laser sighting selector switch used to select between "a single laser dot" for hot spot locating and "a laser circle pattern" that outlines the optical field of view for average area measurement. The large backlit LCD

display features simultaneous readings in both digital and analog bargraph format with settings for Min/Max and Average readings. Each unit features Auto power-off, fused multimeter inputs, both battery or optional AC wall adapter operation and comes complete with safety test leads, dual type-K temperature probes, rubber protective boot, batteries, spare fuse, user's manual and is CE marked.



HMM290 SUPERMETER®

Specifications

GENERAL:

Operating Temperature:
0 to 50°C

Power: 6AA size 1.5 Vdc Batteries (included) or optional DC Adaptor, 9 Vdc @ 200 mA

Display: Dual Backlit LCD with digital readout of 43,000 counts and analogue bar graph of 40 counts.

Display Resolution:

Range	Display Resolution
0-4.3	0.0001
0-43	0.001
0-430	0.01
0-4300	0.1
0-43000	1

Low Battery Indication:
Icon on LCD

Battery Life: 100 hours normal operation No Laser or LCD Backlit

Tripod Mount: 1/4"-20 UNC

Dimensions: 203 x 101 x 51 mm (8 x 4 x 2")

Weight: 640 g (1.42 lb)

Temperature Measurement

Thermocouple Type: Dual K type

Display: T1, T2, or T1-T2

Accuracy: 2% Rdg or 2°C

Measurement Range:

-40 to 1315°C (-40 to 2400°F)

Infrared Measurement

Measurement Range:

-20 to 550°C (-4 to 1022°F)

Accuracy @ 22°C: 2% of Rdg or 1.7°C, whichever is greater

IR Resolution: 1°C or °F

Optical Field of View: 10 to 1

Spectral Response: 8 to 14 micron

Emissivity: 0.1 to 1.00 adjustable

Response Time: ≤1.5 seconds

Laser Sighting

Wavelength (Color):

630-700 nm, (Red)

Maximum Optical Power Output:
<5 mW. Class IIIa Laser Product

Operating Distance:

Laser Dot – Up to 23 m (75 ft)

Laser Circle – Up to 7.6 m (25 ft)

Laser Indicator:

Laser icon on the display

Multimeter

DC VOLTS

Range: 430 mV to 1000 V

Accuracy: 0.25% Rdg + 1 Digit

AC VOLTS

Range: 430 mVac to 750 Vac

Accuracy: 1% Rdg + 2 Digits

DC CURRENT

Range: 430 uA to 10 A

Accuracy:

0.5% Rdg + 1 Digit (Up to 43 mA)

2% Rdg + 1 Digit (Up to 10 A)

AC Current

Range: 430 uA to 10 A

Accuracy:

1% Rdg + 2 Digits (Up to 43 mA)

2.5% Rdg + 2 Digits (Up to 10 A)

Resistance

Range: Up to 43 MΩ

Accuracy:

0.3% Rdg + 3 Digits

(Up to 4.3 MΩ)

Frequency

Range: Up to 1.8 MHz

Accuracy: 1% Rdg

+ 3 Digits

Capacitance

Range: 4.3 nF to 430 uF

Accuracy: 5% Rdg

+ 10 Digits

+ 10 Digits



Tilt Stand and Rubber Boot Included



Tripod Mountable

Optional ac Power Adaptor

AVOID EXPOSURE TO LASER RADIATION FROM THIS APERTURE

LASER RADIATION: AVOID DIRECT EYE EXPOSURE
 MAX. OUTPUT < 5mW, WAVE LENGTH 630-670nm.
 CLASS IIIa LASER PRODUCT COMPLIES WITH 21 CFR CHAPTER 1, SUBCHAPTER J

DANGER

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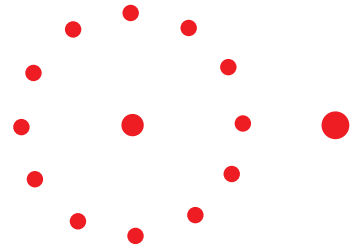
For the complete selection of Handheld products, refer to The Green Book®

SUPERMETER® 3 METERS IN 1!

Infrared Measurement

Laser Sighting
Dot or Circle *Switchable*

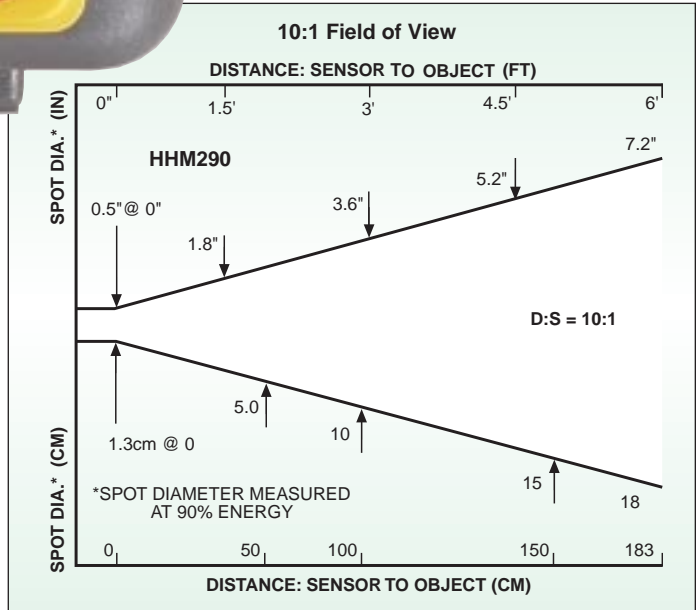
Patented Laser Sighting
Circle or Dot Switchable



Patent Notice: U.S. PAT. B1 5,368,392; 5,524,984; 5,727,880; 5,465,838; 5,823,678, 5,823,679, 6,095,682; 6,123,453, European Patent No. 0644408. Other Patents Pending.

Dual Type K Thermocouple Inputs
(Thermocouples included) with Differential Function

- ✓ Built-in Non-Contact Infrared Pyrometer
- ✓ Full Function Multimeter Featuring Min, Max, and Average Readings
- ✓ Dual K Type Thermocouple Input and Temperature Display (T1 & T2) as well as Differential Temperature (T1-T2)
- ✓ Built-in Patented Laser Circle Sighting for Infrared Measurement
- ✓ Digital Emissivity Adjustment from 0.1 to 1.00 in 0.01 Steps
- ✓ Optical Field of View of 10:1 (Distance to Spot Size)
- ✓ High Performance, Rugged Design with Large Backlit LCD Display
- ✓ Measures Voltage, Current, Resistance, Capacitance, Inductance, and Frequency
- ✓ Built-in Diode and Logic Test
- ✓ Battery Powered as well as AC Powered Using an Adaptor
- ✓ Auto Power Shut Off Feature
- ✓ Tripod Mount and a Built-in Rubber Boot



To Order (Specify Model Number)

Model Number	Price	Description
HHM290		Digital multimeter/infrared thermometer with laser sighting Dot/Circle Switch
Options and Accessories		
HHM290-SC		Soft carrying case
HHM-TL		Replacement test leads (1set)
OS520-Adaptor-110V		110 Vac adaptor
OS520-Adaptor-220V		220 Vac adaptor
KTSS-HH		General Purpose, immersion probe, type K
88001K		General purpose surface probe, type K
CALIBRATION	*	NIST Traceable Calibration

* Consult Sales for price and Calibrations available
Each unit comes complete with rubber boot, two (2) type K beaded wire thermocouples, 6 AA alkaline batteries, test leads and operator's manual.
Ordering Example: HHM290, Digital multimeter/infrared thermometer with laser sighting ; HHM290-SC, soft carrying case ; KTSS-HH, general purpose immersion probe.



▲ INVISIBLE LASER RADIATION. LASER RADIATION IS EMITTED FROM THIS AREA.

★ LASER RADIATION: AVOID DIRECT EYE EXPOSURE
MAX. OUTPUT: 5mW, WAVE LENGTH 630-670nm.
CLASS IIIa LASER PRODUCT COMPLIES WITH 21 CFR CHAPTER 1, SUBCHAPTER J. **DANGER**

We make running changes when technical advances allow. Check at time of ordering for additional features.