

**Patented Laser Sighting  
Non-Contact Temperature Measurement**

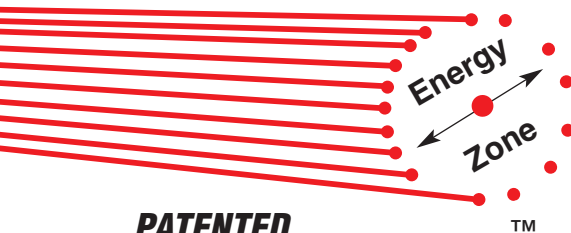
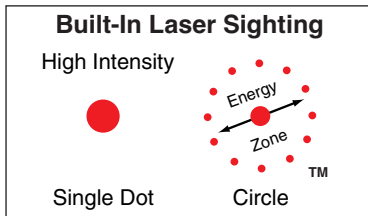
**3 METERS IN 1** True RMS Measurement!



**UNIQUE FEATURES!**

- ✓ Built-In Infrared Pyrometer with Switchable Laser Dot/Circle Sighting
- ✓ Adjustable Emissivity with 10:1 Field of View
- ✓ Full-Function Auto-Ranging Digital Multimeter
- ✓ Measures Capacitance, Inductance, and Frequency
- ✓ Dual Thermocouple Input (Non-Isolated) with Differential Temperature Function
- ✓ Powered by 6 "AA" Batteries or DC Adaptor
- ✓ Built-In Tripod Mount (Tripod Included)
- ✓ Monitors Min, Max, Avg Readings
- ✓ Rugged Housing with Removable Boot

**Laser Circle to Dot Switchable**



Non-Contact Temperature Measurement

Differential Temperature Measurement



**PATENTED**

Covered by U.S. and International patents

Test leads, portable mini-tripod, 2 Type K thermocouples, 6 "AA" batteries, rubber boot, tilt stand, spare fuse and operator's manual all included.

† Refer to Options and Accessories chart on page 77 for NIST calibration ordering information.

**Shock-Resistant,  
Removable Boot**

See top view  
on next page.

### **SUPERMETER® 3 METERS IN 1!**

Includes:

- Test Lead Set **NEW**
- Portable Mini-Tripod
- 2 Type K Beaded Wire Thermocouples with Spool Caps
- 6 "AA" Batteries
- Rubber Boot
- Tilt Stand
- 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 (Non-Isolated) and Selectable Temperature Display (T1 and T2) as well as Differential Temperature (T1-T2)

**True RMS  
Measurement!**

**Everything  
Included!**

#### **TECHNOLOGY BREAKTHROUGH!**

"It's a technician's dream come true!" The patented, "all-in-one" HHM290 SUPERMETER® combines the functions of a true RMS full-function multimeter, a non-contact infrared pyrometer with laser sighting and a dual-input Type K (non-isolated) thermocouple meter with a differential measurement feature into one power-packed handheld instrument. The multimeter measures DC/AC voltage,

current, resistance, frequency, and capacitance, and features a built-in logic and diode tester. The infrared pyrometer offers adjustable emissivity, a wide temperature range, a 10:1 field of view, and a laser sighting selector switch. With this switch, the user can 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 shows

simultaneous readings in both digital and analog bar graph format with settings for min/max and average readings. Features include auto power-off, fused multimeter inputs, and battery or AC wall adaptor power. The HHM290 comes with safety test leads, dual Type K temperature probes, rubber protective boot, batteries, spare fuse, and operator's manual. Units are CE marked.

# True RMS Supermeter®

## GENERAL SPECIFICATIONS

### Operating Temperature:

0 to 40°C (32 to 104°F)

**Power:** 6 "AA" batteries (included) or optional DC adaptor, 9 Vdc @ 200 mA

**Display:** Dual backlit LCD with digital readout of 43,000 counts and analog bar graph of 40 counts

### Display Resolution:

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

### Low Battery Indicator:

Icon on LCD

**Battery Life:** 100 hours normal usage without laser or LCD backlight

**Tripod Mount:** 1/4" to 20 UNC

**Dimensions:** 203 H x 101 W

x 51 mm D (8 x 4 x 2")

**Weight:** 640 g (1.42 lb)

## MULTIMETER

### DC Voltage

**Range:** 430 mV to 1000V

**Accuracy:** 0.25% rdg + 10 digits

### AC Voltage

**Range:** 430 mVac to 750 Vac

**Accuracy:** 1% rdg + 20 digits

### DC Current

**Range:** 430 µA to 10 A

### Accuracy:

0.5% rdg + 10 digits (up to 43 mA)

2% rdg + 10 digits (up to 10 A)

### AC Current

**Range:** 430 µA to 10 A

### Accuracy:

1% rdg + 20 digits (up to 430 mA)

2.5% rdg + 20 digits (up to 10 A)

### Resistance

**Range:** Up to 41 MΩ

**Accuracy:** 0.3% rdg + 20 digits

(Up to 4.3 MΩ)

### Frequency

**Range:** Up to 1 MHz

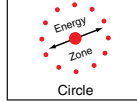
**Accuracy:** 0.1% rdg + 3 digits

### Capacitance

**Range:** 4.3 nF to 430 µF

**Accuracy:** 5% rdg + 100 digits

Switch from Circle!



Differential temperature sensors included.

Shown with tilt stand and rubber boot (included).



Switch from High Intensity Dot!

## TEMPERATURE MEASUREMENT

### Thermocouple Type:

Dual Type K (non-isolated)

**Display:** T1, T2, or T1-T2

**Accuracy:** 2% rdg or 2°C

**Measurement Range:** -200 to 1372°C (-328 to 1999°F)

## INFRARED MEASUREMENT

**Measurement Range:** -20 to 550°C (-4 to 1022°F)

**Accuracy @ 22°C:** 2% rdg or 1.7°C, whichever is greater

**Resolution:** 1°C or °F

**Optical Field of View:** 10:1

**Spectral Response:** 8 to 14 microns

**Emissivity:** 0.1 to 1 adjustable

**Response Time:**

≤1.5 seconds

## LASER SIGHTING

**Wavelength (Color):** 630 to 670 nm (red)

**Operating Distance:**

**Laser Dot:** Up to 12 m (40')

**Laser Circle:** Up to 4.5 m (15')

**Maximum Optical Power Output:**

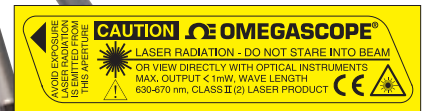
<1 mW Class II laser product

**Laser Indicator:** Laser icon on the display

Portable Mini-tripod mount (included).

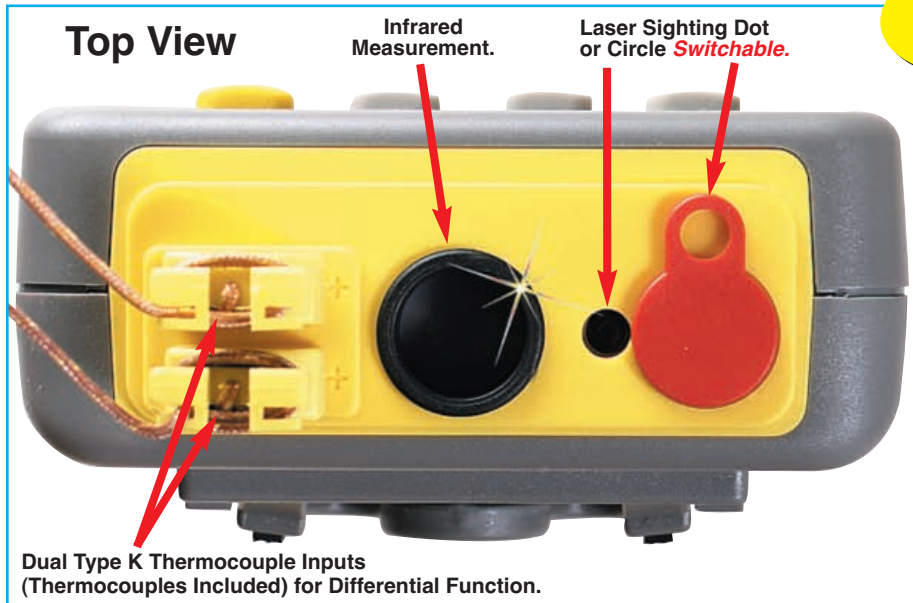
Optional Portable Mini-tripod mountable (See "To Order" on Next Page).

Optional AC Adaptor (See "To Order" on Next Page).

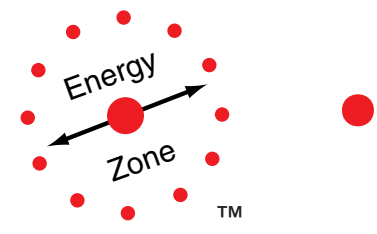


# SUPERMETER® 3 Meters in 1!

**In Stock for Immediate Delivery**



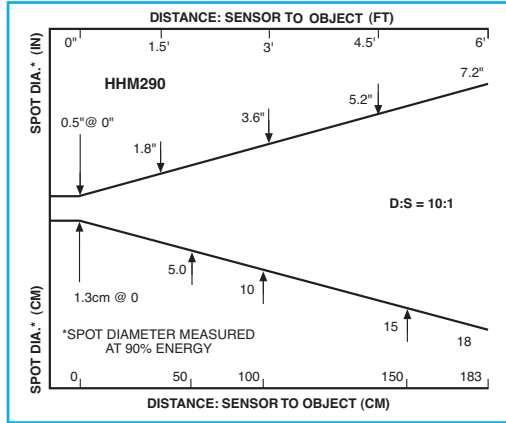
**Patented Laser Sighting Circle or Dot Switchable**



**PATENTED**  
Covered by U.S and International patents

- ✓ Built-In Non-Contact Infrared Pyrometer
- ✓ Full-Function Multimeter Featuring Min, Max, and Average Readings
- ✓ Dual Type K Thermocouple Input (Non-Isolated) and Temperature Display (T1 and 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
- ✓ Measures Voltage, Current, Resistance, Capacitance, Inductance, and Frequency
- ✓ Built-In Diode and Logic Test
- ✓ Battery as well as Optional AC Power
- ✓ Auto Power-Off
- ✓ Tripod Mount and Built-In Rubber Boot

**10:1 Field of View**



**AVAILABLE FOR FAST DELIVERY!**

<b>To Order (Specify Model Number)</b>	
Model No.	Description
HHM290/N	Digital multimeter/infrared thermometer with laser sighting dot/circle switch, portable mini-tripod, rubber boot, 2 Type K beaded wire thermocouples, 6 "AA" alkaline batteries, test leads, spare fuse and operator's manual
<b>Options and Accessories</b>	
HHM290-SC	Soft carrying case for HHM290
HHM57-TL	Test leads (1 set)
HHM-TL	Replacement test leads (1 set)
KTSS-HH	General purpose immersion probe (Type K)
88001K	General purpose surface probe (Type K)
CAL-3-IR†	NIST-traceable calibration
TRIPOD	Lightweight tripod with soft carrying case
HHM290-ADAPTER-110V	110 Vac adaptor: HHM290 US plug

† Consult Sales for prices on additional calibration services  
 Comes complete with portable mini-tripod, rubber boot, 2 Type K beaded wire thermocouples, 6 "AA" alkaline batteries, test leads and operator's manual.  
**Ordering Example:** HHM290/N, digital multimeter/infrared thermometer with laser sighting, HHM290-SC, soft carrying case, KTSS-HH, general purpose immersion probe, CAL-3-IR, NIST-traceable calibration.

