



# High Accuracy Thermocouple and RTD Thermometers

HH100 Series  
Starts at  
**\$250**



- ✓ Dual K/J/T/E/R/S/N Input (HH127)
- ✓ Dual 2-, 3- and 4-Wire RTD Input (HH126)
- ✓ HH176 Has One RTD and One Thermocouple Input
- ✓ Large Easy to Read LCD Display T1, T2, T1-T2
- ✓ Protective Rubber Boot
- ✓ MAX/MIN/AVG/REL/HOLD Functions
- ✓ IR to USB Data Transfer Output
- ✓ Data Logging and Real Time PC Monitoring
- ✓ Software Included (Windows® 2000 and XP Compatible)
- ✓ Data Logging Capacity 9999/Channel

The HH100 Series handheld meters are high accuracy thermocouple, RTD or combined input data logging thermometers. The HH100 series thermometers are heavy-duty construction and have a 4½-digit display capable of a maximum indication to 19,999. There are 3 display locations on the LCD that displays the temperatures and difference of the two inputs as well as the specific function when in use. The output uses an infrared connector for fast reliable transmission for real time PC viewing or the transfer of stored data from the meter. Each channel is capable of storing up to 9999 data records per channel in the data logging mode. Windows software included to operate data transfer and real time viewing.





## Specifications

### Thermocouple Measurement Range:

**Type K:** -200 to 1372°C  
(-328 to 2501°F)

**Type J:** -210 to 1200°C  
(-326 to 2192°F)

**Type T:** -250 to 400°C  
(-418 to 752°F)

**Type E:** -210 to 1000°C  
(-346 to 1832°F)

**Type R/S:** 0 to 1767°C  
(-238 to 2372°F)

**Type N:** -150 to 2372°C  
(-238°F to 2372°F)

### RTD Measurement Range:

Pt100 385, -200 to 800°C  
(-328 to 1472°F) Pt200/500/1000 Ω  
385/3916/3926, -200 to 600°C  
(-328 to 1112°F)

**Accuracy:** Stated accuracy at  
18 to 28°C (64 to 82°F) <80%RH

**Type:** K/J/T/E/N ±(0.05% of reading  
0.3°C (0.6°F) <-100°C (-148°F) K/J/T/E  
add 0.15%, N add 0.45% of reading

**Type R/S:** ±0.05% of reading  
1°C (1.8°F)

**Type:** RTD Pt100/200/500/1000 Ω  
385/3916/3926 ±(0.05% reading 0.3°C  
(0.6°F) <-100°C (-148°F) Pt100/200 Ω  
385/3916/3926 add 0.15% of reading  
<-100°C (-148°F) Pt500/1000 Ω  
385 add 0.45% of reading

**Display:** 4½ digits maximum  
indication 19,999

### Data Logger Interval Rate

1 second to 59 minute 59 seconds

### Sampling Rate:

4 per second

### Data Storage:

9999 records per channel

**Power Source:** 4 "AAA" 1.5V batteries

**Battery Life:** 220 hours

**Input Connector:** Mini SMP  
thermocouple models 4 Pin mini DIN  
RTD models female on meter

**Operating Temperature Conditions:**  
0 to 50°C (32 to 122°F) below 80% RH

**Storage Conditions:** -10 to 60°C  
(-4 to 140°F) below 70% RH

### Dimensions:

164 H x 76 W x 32 mm D  
(6.5 x 3.0 x 1.25")

**Weight:** 415 g (0.93 lb) with batteries



OMEGACARE<sup>SM</sup> extended warranty program is available for models shown on this page. Ask your sales representative for full details when placing an order. OMEGACARE<sup>SM</sup> covers parts, labor and equivalent loaners.

**SC-800 soft carrying case, sold separately, \$10, shown smaller than actual size.**

**Included!**  
RTD Cable

All RTD models include a free RTD cable (one per channel)  
**Order a Spare!**  
Model HH126-CONN, \$10

Both shown actual size.

**Thermocouple**

Thermocouple models include a free 1 m (36") beaded wire thermocouple with subminiature connector and wire spool caddy (1 per channel). **Order a Spare! Model SC-GG-K-30-36, \$15.**

## AVAILABLE FOR FAST DELIVERY!

To Order (Specify Model Number)		
Model No.	Price	Description
HH126	\$300	Handheld thermometer dual input RTD with data logging
HH127	250	Handheld thermometer dual input thermocouple with data logging
HH176	360	Handheld thermometer thermocouple and RTD input with data logging
SC-800	10	Soft carrying case with belt loop, see pages L-59 and L-60
SPHT-K-6	45	Thermocouple surface probe
KTSS-HH	29	General purpose thermocouple probe
HH100-USB	30	Spare USB cable
HH126-CONN	10	Spare 4 pin mini DIN cable

Comes complete with 4 "AAA" alkaline batteries, software CD, 1.8 m (6') infrared to USB data cable, rubber boot, and Type K thermocouple or RTD cable (one per channel dependent on model), and operator's manual.

To order additional RTD pre-wired probes add "-HH126-CONN" to RTD probe model number and \$10 to price.

**Ordering Examples:** HH126, handheld thermometer, \$300. OCW-3, OMEGACARE<sup>SM</sup> extends standard 1-year warranty to a total of 4 years (\$90), \$300 + 90 = \$390.

HH176, handheld thermometer and RTD thermometer with PR-11-2-100-1/4-12-E, probe, and HH126-CONN, pre-wired connector, \$360 + 66 + 10 = \$436.P

# omega.co.uk<sup>®</sup>

Your One-Stop Source for Process Measurement and Control!

Freephone 0800 488 488 | International +44(0) 161 777 6622 | Fax +44(0) 161 777 6622 | Sales@omega.co.uk

[www.omega.co.uk](http://www.omega.co.uk)



#### UNITED STATES

[www.omega.com](http://www.omega.com)

1-800-TC-OMEGA  
Stamford, CT.

#### UNITED KINGDOM

[www.omega.co.uk](http://www.omega.co.uk)

Manchester, England  
0800-488-488  
+44-(0)161-777-6611

#### CANADA

[www.omega.ca](http://www.omega.ca)

Laval(Quebec)  
1-800-TC-OMEGA

#### FRANCE

[www.omega.fr](http://www.omega.fr)

0800-466-342

#### GERMANY

[www.omega.de](http://www.omega.de)

Deckenfronn, Germany  
0800-8266342

#### BENELUX

[www.omega.nl](http://www.omega.nl)

0800-099-33-44



## More than 100,000 Products Available!

### • Temperature

Calibrators, Connectors, General Test and Measurement Instruments, Handheld Instruments for Temperature Measurement, Ice Point References, Indicating Labels, Crayons, Cements and Lacquers, Infrared Temperature Measurement Instruments, Recorders, Relative Humidity Measurement Instruments, PT100 Probes, PT100 Elements, Temperature & Process Meters, Timers and Counters, Temperature and Process Controllers and Power Switching Devices, Thermistor Elements, Probes and Assemblies, Thermocouples, Thermowells and Head and Well Assemblies, Transmitters, Thermocouple Wire, RTD Probes

### • Flow and Level

Air Velocity Indicators, Doppler Flowmeters, Level Measurement, Magnetic Flowmeters, Mass Flowmeters, Pitot Tubes, Pumps, Rotameters, Turbine and Paddle Wheel Flowmeters, Ultrasonic Flowmeters, Valves, Variable Area Flowmeters, Vortex Shedding Flowmeters

### • pH and Conductivity

Conductivity Instrumentation, Dissolved Oxygen Instrumentation, Environmental Instrumentation, pH Electrodes and Instruments, Water and Soil Analysis Instrumentation

### • Data Acquisition

Communication Products and Converters, Data Acquisition and Analysis Software, Data Loggers Plug-in Cards, Signal Conditioners, USB, RS232, RS485, Ethernet and Parallel Port Data Acquisition Systems, Wireless Transmitters and Receivers

### • Pressure, Strain and Force

Displacement Transducers, Dynamic Measurement Force Sensors, Instrumentation for Pressure and Strain Measurements, Load Cells, Pressure Gauges, Pressure Reference Section, Pressure Switches, Pressure Transducers, Proximity Transducers, Regulators, Pressure Transmitters, Strain Gauges, Torque Transducers, Valves

### • Heaters

Band Heaters, Cartridge Heaters, Circulation Heaters, Comfort Heaters, Controllers, Meters and Switching Devices, Flexible Heaters, General Test and Measurement Instruments, Heater Hook-up Wire, Heating Cable Systems, Immersion Heaters, Process Air and Duct, Heaters, Radiant Heaters, Strip Heaters, Tubular Heaters