

# Precision RTD Handheld Data Logger Thermometer

HH376



- ✓ High Accuracy with 0.01°C/°F Resolution
- ✓ Large Backlit Dual LCD Display
- ✓ MAX/MIN/HOLD Function
- ✓ 16,000 Record Data Logger
- ✓ USB Cable Included
- ✓ Windows Software
- ✓ Auto Power Off
- ✓ User Offset Adjustable
- ✓ Low Battery Indicator
- ✓ Tilt Stand
- ✓ Precision 4 Wire, 100Ω Platinum RTD Probe Included

The HH376 is a high accuracy RTD thermometer plus a powerful data logger. The unit can store up to 16,000 records at programmed intervals. Windows® based software and USB interface cable are included to allow real time or recorded data to be read by a PC through the USB or RS232 port (RS232 cable is optional). The HH376 is supplied with a precision 4-wire RTD probe with automatic locked push-pull connector for easy connection.

## Specifications

### INSTRUMENT

**Numerical Display:** 5-digit LCD  
**Measurement Range:** -100 to 400°C (-148 to 752°F)  
**Resolution:** 0.01°C (0.02°F)  
**Sensor Types:** Platinum resistance temperature sensor for pt-100 4 wires, ALPHA = 0.00385

### ENVIRONMENTAL

**Operating Temperature and Humidity:** 0 to 50°C (32 to 122°F); 0 to 80% RH  
**Storage Temperature:** -10 to 60°C (14 to 140°F); 0 to 80% RH; altitude up to 2000 meters  
**Accuracy:** At (23 ±5°C)  
**Range Accuracy:** -100 to 400°C ±(0.05% reading + 0.1°C) [-148 to 752°F ±(0.05% reading + 0.2°F)]  
**Temperature Coefficient:** For ambient temperatures from 0 to 18°C and 28 to 50°C, for each °C ambient below 18°C or above 28°C add the following tolerance into the accuracy spec. 0.005% of reading +0.01°C (0.005% of reading + 0.02°F)  
**Sample Rate:** 2 times per second  
**Dimensions:** 185 L x 65 W x 36 mm D (meter only)  
**Weight:** 360 g approximately  
**Power Requirement:** 9V battery (included)  
**AC Adaptor:** 9 Vdc (7 to 10V maximum)/20 mA minimum (plug diameter: 3.5 x 1.35 mm)  
**Battery Life:** Approximately 100 hours



HH376 with precision RTD probe (included).

### PROBE

**Sensor Type:** Pt100 (4-wire)  
**Accuracy:** Class A13, temperature probe  
**Measurement Range:** -100 to 400°C (-148 to 752°F)  
**Sheath Diameter:** 5.0 mm (0.2")  
**Sheath Length:** 230 mm (9.05")  
**Cable Length:** 1500 mm (59.0")



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.

### To Order

Model No.	Description
HH376	Precision RTD handheld data logger thermometer with probe

### Accessories (Field Installable)

Model Number	Description
HH376-RP	Precision 4-wire RTD probe (spare)
HH300-ADAPTOR	Power adaptor (115 Vac)
HH300-CABLE	RS232 interface cable (optional)
HH300A-CABLE-USB	USB interface cable (spare)

Comes complete with precision RTD probe, USB cable, Windows software, NIST certificate, carrying case, 9V battery, and operator's manual.

**Ordering Example:** HH376P, precision RTD handheld data logger thermometer. OCV-3, OMEGACARE extends standard 1-year warranty to a total of 4 years.