Ultra-High-Accuracy and Resolution Handheld Thermistor Thermometer

HH40 Series Starts at \$425

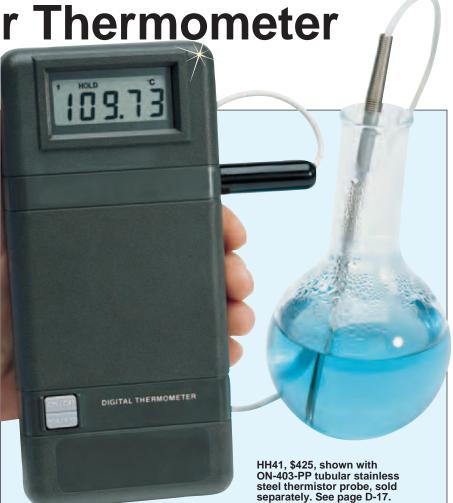


- Works with Standard OMEGA[®] "400" Series Thermistor Probes with Phone Jack Termination
- Ultra-High Accuracy, up to ±0.015°C (±0.027°F)
- Includes NIST-Traceable Calibration Certificate
- High Resolution, up to 0.01°F or °C
- -20 to 130°C (-4 to 266°F) Temperature Range
- Model HH42 has RS232 Communications
- Hold Function, Auto Shut-Off, Rate of Change Arrow Indicators, Over/Under Range and Low Battery Indication

Applications

- R and D Labs
- Metrology Labs
- Industry

The HH41 handheld thermistor thermometer is a rugged, field tested unit that fits a wide variety of temperature measurement applications requiring ultra-high accuracy and high resolution at an economical price. The HH41 accepts OMEGA's 400 Series thermistor probes with phone jack termination. The HH41 features



display hold and °F/°C selection from the single front panel tactile feedback silicone function button. The unit's LCD display features a low battery indication and also rate of temperature change arrows which, flashing at different speeds, inform the operator of the rate at which the temperature is changing. The unit has internal jumpers to disable selection of °F or °C from the front panel and enable display of either °F or °C only. Internal jumpers are also present to select either auto or manual shut-off mode. In the auto shut-off mode, the unit will automatically shut off 10 minutes after the last function key entry. Model HH42 has all the features of the HH41 with the addition of RS232 communications.In situations where very high system accuracy is required, OMEGA offers a total system calibration service (probe plus meter); ask for CAL-4.

Specifications

Accuracy: See Instrument Accuracy vs. Temperature Table below Resolution: See Display Resolution Table below

Shown smaller than actual size.

Repeatability: 0.002 to 0.01°C (-20 to 70°C); 0.004 to 0.02°C (-4 to 158°F) typical for 1 week at constant ambient temperature

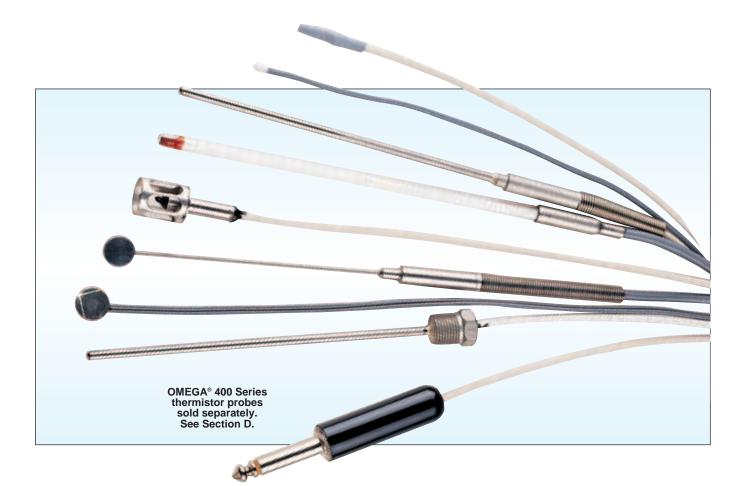
Temperature Range:

-20 to 130°C (-4 to 266°F) Reading Rate: 2 per second Display: 4½ digit LCD Power: 9 Vdc battery, alkaline

(included), optional 110 Vac or 220 Vac adaptor

Battery Life: 20-hour, typical, alkaline battery

Battery Indicator: Displays flashing battery indicator when less than 1-hour of battery life remains



Instrument Accuracy* vs. Temperature

Accuracy °C (°F)
±0.016 (0.029)
±0.015 (0.027)
±0.015 (0.027)
±0.015 (0.027)
±0.015 (0.027)
±0.015 (0.027)
±0.017 (0.031)
±0.019 (0.034)
±0.023 (0.041)
±0.029 (0.052)
±0.037 (0.067)
±0.049 (0.088)
±0.066 (0.119)
±0.088 (0.158)
±0.117 (0.211)
±0.156 (0.281)

* Ambient temperature: 18 to 28°C (64 to 82°F).

Display Resolution

Temp Range °C (°F)	Resolution °C (°F)
-20 to 102 (-4 to 215)	0.01 (0.01)
102 to 130 (215 to 266)	0.02 (0.05)

Temperature Unit Selection:

°F/°C selectable from front panel function button, or internal jumpers to enable °F or °C only **Shut-Off Mode:** Internal jumper selection for auto or manual shut-off mode; auto shut-off in 10-min with no function key entry

Thermistor Sensor: Works with OMEGA[®] 400 Series thermistor (2252 Ω) probes with ½" phone jack (Model PPM-2) connection

Operating Ambient: 10 to 40°C (50 to 104°F); 0 to 85% RH **RS232 Communications:** 9600 baud, no parity **Case Material:** ABS **Dimensions:** 184.1 H x 83.8 W x 31.8 mm D (7.25 x 3.30 x 1.25") **Weight:** 312 g (11 oz)

AVAILABLE FOR FAST DELIVERY!

To Order (Specify Model Number)		
Model No.	Price	Description
HH41	\$425	Handheld thermistor thermometer
HH42	499	Handheld thermistor thermometer with RS232 communications

Accessories

Accessories		
Model No.	Price	Description
HH40-AC	\$56	110 Vac adaptor for HH41 or HH42
HH40-AC220	65	220 Vac adaptor for HH41 or HH42
HH40-SOFT	99	Software for HH42
SC-HH500	12	Soft case for HH41 or HH42
RCC-1000	40	Rugged attache style case for HH41 or HH42 plus probes
MN1604	3	Extra alkaline battery

Comes complete with 9 Vdc alkaline battery, NIST-traceable calibration certificate (no data points), and operator's manual. HH42 comes with built-in RS232 connector. Ordering Example: HH41, thermometer, and HH40-AC, 110 Vac adaptor, \$425 + 56 = \$481.

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