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## Cole-Parmer® Five-Channel Scanning Thermistor Thermometers - Product Detail

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# Cole-Parmer® Five-Channel Scanning Thermistor Thermometers



[click to enlarge](#)

**EW-08502-16**

Cole-Parmer® Five Channel Scanning Thermistor Thermometer; recorder output; 10mV per °F or °C

Qty: 1

**Add To Cart**

\$952.00 / each (USD)

In stock.

**Product Rating**

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- **High-resolution (0.01) models available**
- **Minimum, maximum, average, and differential modes**

Thermistor thermometry is based on the principle that metal oxides change resistance with a change in temperature. Our thermistors decrease in resistance as the temperature increases. This resistance change is detected by the meter where it is converted and displayed as a temperature reading.

**Why Choose a Thermistor?**

Thermistors have the excellent accuracy over the biological or ambient temperature ranges when compared to RTDs or thermocouples. Response times are generally faster than RTD probes.

Scan up to five probes (400, 500, and 700 series) at different locations simultaneously in any order, automatically. Manually select the channel you wish to display from the front-panel keypad. LEDs located below the probe-select keypad light up to indicate which channel is being displayed. Hold function allows you to interrupt scanning to view one channel. Thermometers scan at 3 seconds/channel and update 4 readings/second. When not scanning, press hold key to freeze a reading ideal when measuring rapidly changing systems.

The differential mode performs DT functions on any two input probes, in any order ideal for HVAC applications. The average mode takes the average of any combination of probes or a time average of any one of the inputs. You can display the minimum or maximum value of the measurements taken for each of the five probes. Use functions together press the MAX and DIFF keys to display the maximum difference between two channels. Nonvolatile memory stores your mode of operation when power is turned off.

Models 08502-14 and -16 feature an analog output (10 mV/°F or °C) proportional to the displayed value. Plot your data on a circular or flatbed recorder. Record instantaneous temperature readings taken by any one of the five probes, or record differential or average readings. With thermometer in the scan mode, recorder output is taken from the first channel in the scanning sequence.

**Specifications**

<b>Temp range</b>	-22 to 212F (-30 to 100C)
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**Application Assistance**

Need help from our experts, use this form.

**Technical Appendix**

**Accessories**

■ **EW-08502-17 Rechargeable battery pack**

Availability: In Stock  
Price: \$97.00/EA

Qty: **Add To Cart**

■ **EW-08502-18 Replacement 115/230 VAC adapter**

Availability: Lead time for this item is 31 days.  
Price: \$26.00/EA

Qty: **Add To Cart**

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**Literature**

[07-08 Catalog](#)

[05-06 Catalog](#)

[Remember to always clean your probe after each use. Use Cole-Parmer's Antimicrobial Wipes 86106-10 \(Click Here\)](#)

Order thermistor 400, 500 and 700 series probes separately

<b>Resolution</b>	0.01F or C, 0.02F or C above 158F (70C)
<b>Accuracy</b>	±0.36F (±0.2C)
<b>Probe</b>	400, 500, or 700 series probes (not included; select 400, 500, or 700 series by an internal switch)
<b>Scan rate</b>	3 seconds/channel
<b>Display</b>	5-digit LCD, 1/2"H
<b>Display update rate</b>	4 readings/second
<b>Recorder output</b>	10 mV per F or C, 600 ohm max
<b>Power</b>	115/230 VAC, 50/60/400 Hz; or optional rechargeable battery pack
<b>Battery life</b>	8 hours
<b>Low battery indicator</b>	yes
<b>Ambient conditions</b>	32 to 112F (0 to 50C)
<b>Dimensions</b>	7.25"W x 2.38"H x 7.88"D

#### Technical Appendix

- **Technical Library** (roll over link for article summary)
  - [Getting a Handle on Temperature](#)
  - [Temperature FAQs](#)
  - [Temperature Instrument Ranges](#)
  - [More Related TechInfo Articles](#)

#### REVIEW SNAPSHOT®

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