



 **Cole-Parmer®**

## DIGI-SENSE® THERMOCOUPLE THERMOMETERS

**TRANSCAT®**



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35 Vantage Point Drive // Rochester, NY 14624 // Call 1.800.800.5001

MAKING TEMPERATURE MEASUREMENT  
QUICK, EASY, AND ACCURATE



***Digi-SENSE®***



# Thermocouple Thermometers

## DON'T RELY ON OFF-THE-SHELF TECHNOLOGY. SELECT DIGI-SENSE!

Technologically advanced Digi-Sense thermocouple thermometers have been proven in the field, in the lab, and on process floors to deliver reliable and accurate results the first time, every time. Available in a wide range of portable handheld meters, each with distinctive product features for use in even the most demanding applications.

### Unique Application-Specific Integrated Circuit (ASIC)

Digi-Sense thermometers utilize our proprietary, second-generation Application-Specific Integrated Circuit (ASIC) technology. The ASIC computer chip was developed exclusively for Digi-Sense to provide greater flexibility in a variety of applications. The chip is the heart of any meter. By controlling the design, we produce a uniquely efficient product that remains current with changes in today's technology.

Each ASIC-equipped Digi-Sense meter has a custom program imprinted on the chip, ensuring product versatility, reliability, and accuracy.



### MARKET APPLICATIONS

- Agricultural
- Educational
- Food Processing
- HVAC
- Industrial
- Laboratory
- R&D

### Exceeds industry certification standards

- Intrinsically safe
- UL/cUL/CE-rated
- Acceptable for use in Group A, B, C, and D hazardous locations
- 3-year warranty

## OUR ERGONOMICALLY DESIGNED METERS ARE MANUFACTURED FOR LONG-TERM RELIABILITY AND RUGGED FIELD USE.



**Bright, easy-to-read LCD**

**Durable ABS plastic case withstands the harshest environments**

**Sealed silicone rubber keypad and IP54-rated splash- and dust-resistant housing**

**Built-in tilt stand allows hands-free operation**

**Application-Specific Integrated Circuit (ASIC) technology**

**ASiC Computer Chip**

**Digi-SENSE**

**-175.7 °C**

**756.3 °F 932.0 °F**

**—TYPE—**

**ON/OFF** **SETUP** **CAL** **PRINT** **MIN** **MAX** **LOG** **T1/T2** **HOLD** **RECALL** **STORE**

**Cole** **DP** **Power**

The image shows a hand holding a rugged digital thermometer. The device has a large LCD screen displaying temperature readings in both Celsius and Fahrenheit. Below the screen is a keypad with various function buttons. A coiled cable is attached to the top. Callout lines point to specific features: the LCD screen, the plastic case, the keypad, the tilt stand at the bottom, and an inset image of an ASIC chip.



# Basic Thermocouple Meters

## FEATURES

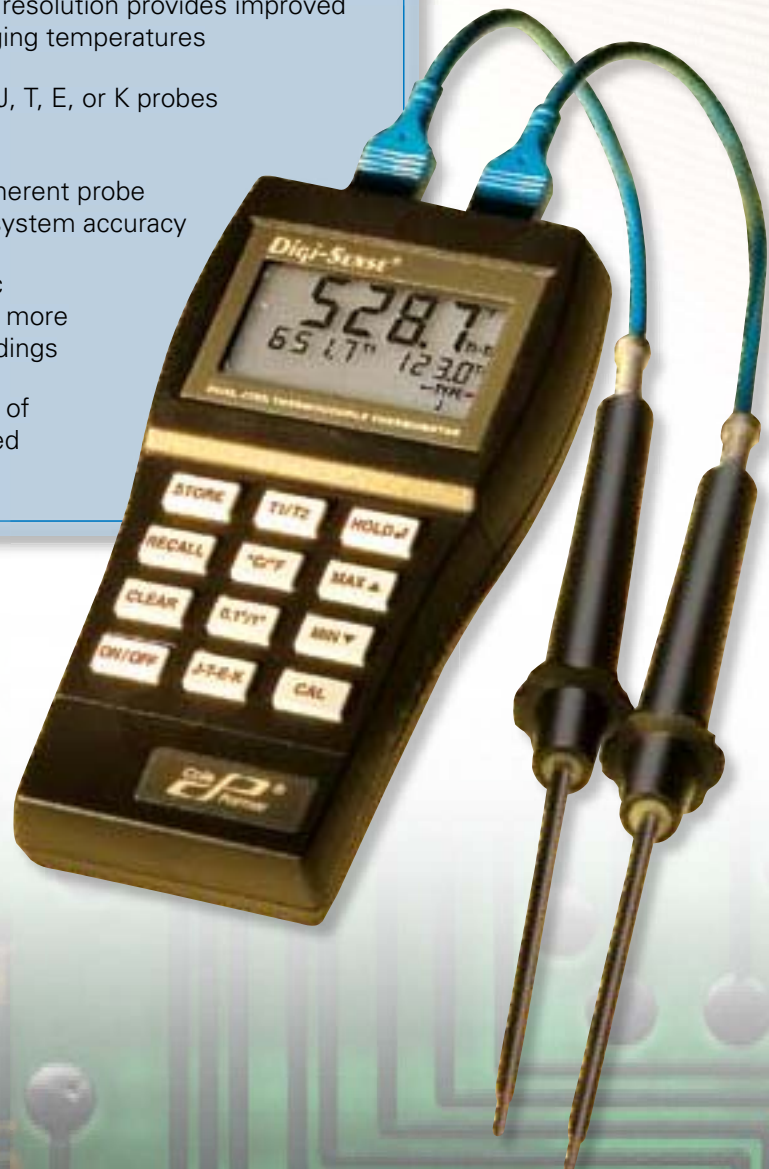
- Easy to use; ideal for basic temperature monitoring
- Models available for each of the three most popular types of thermocouple—J, K, or T
- Four-button keypad features On/Off, °C/°F, Hold, and CAL
- CAL button allows automatic single-point field calibration not available on most comparably priced meters
- Lockout feature prevents unauthorized change of settings



# Dual-Input J-T-E-K<sup>®</sup> Thermocouple Meter

## FEATURES

- Perform single- or simultaneous dual-channel temperature measurements—monitor and compare two applications with one meter to save time and cost
- Differential temperature function (T1/T2) compares readings from two distinct probes
- Keypad-selectable, four-digit resolution provides improved readability with rapidly changing temperatures
- Accepts thermocouple type J, T, E, or K probes for added versatility
- Automatically corrects for inherent probe error to ensure best overall system accuracy
- CAL button allows automatic two-point field calibration for more reliable and reproducible readings
- Manually store up to 25 sets of readings in memory—no need to stop and write down data





# DuaLogR<sup>®</sup> Datalogging Thermocouple Meter

## FEATURES

- Automatically or manually log up to 1000 data sets in real time to track important temperature measurements over an extended period
- Use the infrared data output or an RS-232 interface adapter to download readings directly to a printer or computer for verifiable record keeping
- Save money using the same meter for multiple applications—accepts up to two inputs from a wide range of thermocouples, including types J, K, T, E, R, S, N, or B
- Display temperature in °C, °F, °R, or K scales for greater versatility
- Accepts optional AC adapter to conserve battery power during extended datalogging



# Digi-Sense® Thermocouple Probes

## AMONG THE MOST EXTENSIVE SELECTION OF PROBES IN THE INDUSTRY!

- Cole-Parmer offers more than 500 different types of thermocouple probes—each in stock or available within a few days!
- Choose from a variety of standard, micro, heavy-duty, and specialty probes to meet all your application needs
- Most probes feature a strain relief spring that protects the cable connection against damage due to repeated flexing and tugging
- Many probes come standard with a unique glass-filled polypropylene handle, specially molded to prevent rolling
- Our expertly trained Application Specialists have the knowledge to help you select the best probe or probes for your temperature measurement requirements



### Some of our most popular probes

Catalog number	Probe type	Description	Temperature range	Response time
<a href="#">ML-08517-55</a>	Thermocouple type J	General-purpose probe with miniconnector and glass-filled nylon handle	–310 to 1400°F (–190 to 760°C)	15 seconds (liquids)
<a href="#">ML-08516-55</a>	Thermocouple type K		–418 to 1650°F (–250 to 899°C)	15 seconds (liquids)
<a href="#">ML-08500-55</a>	Thermocouple type T		–418 to 752°F (–250 to 400°C)	15 seconds (liquids)

For our complete selection of Digi-Sense thermocouple probes, visit [www.coleparmer.com/DS\\_probes](http://www.coleparmer.com/DS_probes)

### LET COLE-PARMER AND DIGI-SENSE CUSTOM BUILD A PROBE TO YOUR EXACT SIZE AND SPECIFICATIONS!

Contact our Application Specialists at **800-323-4340** or use our online custom probe configurator by visiting [www.coleparmer.com/CustomProbe](http://www.coleparmer.com/CustomProbe)



**In the U.S.**

625 E. Bunker Court  
Vernon Hills, IL 60061  
Call toll-free 800-323-4340  
Phone: 847-549-7600  
Fax: 847-247-2929  
[www.coleparmer.com](http://www.coleparmer.com)

**In Canada**

Call toll-free 800-363-5900  
Phone: 514-355-6100  
Fax: 514-355-7119  
[www.coleparmer.ca](http://www.coleparmer.ca)

**In India**

Phone: 91-22-6716-2222  
Fax: 91-22-6716-2211  
[www.coleparmer.in](http://www.coleparmer.in)

**In the United Kingdom**

Free phone: 0500-345-300  
Phone: 020-8574-7556  
Fax: 020-8574-7543  
[www.coleparmer.co.uk](http://www.coleparmer.co.uk)

**International customers**

Call 847-549-7600 to reach our  
International Sales Department  
or contact your local dealer.



**FREE TECHNICAL  
APPLICATIONS ASSISTANCE!**

## PERFORMANCE SPECIFICATIONS

**Power:**

two AA batteries (included)

**Battery life:**

>750 hours

Catalog number	Meter description	Temperature range	Accuracy	Resolution	Display
<a href="#">ML-91100-00</a>	Basic thermocouple type J	–328 to 1832°F (–200 to 1000°C)	Below –99.9°F/°C: ±0.25% of rdg plus 2°F (1°C) Above –99.9°F/°C: ±0.2% of rdg plus 0.9°F (0.5°C)	0.1 between –99.9° and 299.9°; 1 below –99.9° and above 299.9°	0.4"H LCD
<a href="#">ML-91100-10</a>	Basic thermocouple type K	–418 to 2501°F (–250 to 1372°C)	Below –99.9°F/°C: ±0.25% of rdg plus 2°F (1°C) Above –99.9°F/°C: ±0.2% of rdg plus 0.9°F (0.5°C)	0.1 between –99.9° and 299.9°; 1 below –99.9° and above 299.9°	0.4"H LCD
<a href="#">ML-91100-20</a>	Basic thermocouple type T	–418 to 752°F (–250 to 400°C)	Below –99.9°F/°C: ±0.25% of rdg plus 2°F (1°C) Above –99.9°F/°C: ±0.2% of rdg plus 0.9°F (0.5°C)	0.1 between –99.9° and 299.9°; 1 below –99.9° and above 299.9°	0.4"H LCD
<a href="#">ML-91210-00</a>	Basic thermocouple type T kit (includes splash proof cover and probe)	–418 to 752°F (–250 to 400°C)	Below –99.9°F/°C: ±0.25% of rdg plus 2°F (1°C) Above –99.9°F/°C: ±0.2% of rdg plus 0.9°F (0.5°C)	0.1 between –99.9° and 299.9°; 1 below –99.9° and above 299.9°	0.4"H LCD
<a href="#">ML-91100-40</a>	Dual-input thermocouple type J, T, E, or K	J: –328 to 1832°F (–200 to 1000°C) K: –418 to 2501°F (–250 to 1372°C) T: –418 to 752°F (–250 to 400°C) E: –418 to 1832°F (–250 to 1000°C)	Below –238°F (–150°C): ±0.25% of rdg + 2°F (1°C) Above –238°F (–150°C): ±0.1% of rdg + 0.7°F (0.4°C)	0.1 between –150 to 999.9°F/°C, 1 for remaining range	Three 4-digit LCDs; ¾"H and ¼"H
<a href="#">ML-91100-50</a>	Datalogging thermocouple type J, K, T, E, R, S, N, or B	J: –328 to 1832°F (–200 to 1000°C) K: –418 to 2501°F (–250 to 1372°C) T: –418 to 752°F (–250 to 400°C) E: –418 to 1832°F (–250 to 1000°C) R: 32 to 3214°F (0 to 1768°C) S: 32 to 3214°F (0 to 1768°C) N: –418 to 2372°F (–250 to 1300°C) B: 392 to 3272°F (200 to 1800°C)	Types J, K, T, E, and N: Below –238°F (–150°C): ±0.25% of rdg plus 2°F (1°C); Above –238°F (–150°C): ±0.1% of rdg plus 0.7°F (0.4°C)  Types R, S, and B: ±0.1% of rdg plus 2°F (1°C)	0.1 between –150 to 999.9°F/°C, 1 for remaining range	Three 4-digit LCDs; ¾"H and ¼"H

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including RTD and thermistor thermometers, benchtop controllers,  
and humidity thermohygrometers.