



Precalibrated & Ready to Use!

## Thermocouple Thermometers

# Get quick and reliable temperature readings everywhere from the lab to production floor

Handheld thermocouple thermometers provide precise measurements when accuracy is a must, delivering dependable results every time! Each model is packed with distinctive features for use in a wide array of applications.

#### All models feature

- Reliable measurements, guaranteed!
   Precalibrated to NIST-traceable standards.\*
- Large backlight LCD for easy viewing in dimly lit conditions
- ◆ Minimum, maximum, and average readings, plus data Hold function
- ◆ Display of temp differential (except model 20250-01)
- Relative time clock on Min/Max/Avg provides a time reference for major events
- Electronic offset function allows compensation of probe errors to maximize overall accuracy
- ◆ User-selectable readout in °C, °F, or Kelvin (K) with 0.1 resolution
- ◆ Simple, intuitive setup and operation
- ◆ Auto power-off mode extends battery life
- ◆ Ergonomic design fits comfortably in your hand
- ◆ Data logging models available
- Accept a wide variety of thermocouple probes

#### Additional features for Professional models

- Infrared input port allows safe, noncontact measurements with optional IR wand
- ♦ Heavy-duty construction withstands knocks and jars
- Scan function for continuous reading in real time (except model 20250-18)
- Data logging software features graphing function



### **Applications**

**→** Agricultural

**→** Educational

**→** Food processing

◆ HVAC

**→** Industrial

**◆** Laboratory

◆ R&D

Preventive maintenance \*Calibration certificate provided by InnoCal®, an ISO17025 accredited laboratory (A2LA certificate 1746.01) offering a broad range of NIST-traceable calibration services.

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Description	Thermo	couple K/J thermo	meters	Professional thermocouple K thermometers with IR input <sup>†</sup>				
Catalog number	MW-20250-01	MW-20250-02	MW-20250-03	MW-20250-18	MW-20250-17	MW-20250-19	MW-20250-20	
Thermocouple (T/C) inputs	1 (type K or J)	2 (type K or J)	4 (type K or J)	1 (type K)	2 (type K)	2 (type K)	4 (type K)	
Infrared (IR) input <sup>†</sup>	No	No	No	Yes	Yes	Yes	Yes	
T/C range	K: -328 to 2501°F (-200 to 1372°C) J: -346 to 2012°F (-210 to 1100°C)			K: -328 to 2501°F (-200 to 1372°C)				
IR range <sup>†</sup>	_			−31 to 1022°F (−35 to 550°C)				
Resolution	0.1°F/C below 1000°, 1°F/C above 1000°			0.1°F/C below 1000°, 1°F/C above 1000°				
T/C accuracy	Above $-148^{\circ}$ F ( $-100^{\circ}$ C): $\pm$ [0.5% rdg $+ 1.8^{\circ}$ F ( $1^{\circ}$ C)] Below $-148^{\circ}$ F ( $-100^{\circ}$ C): $\pm$ [0.5% rdg $+ 3.6^{\circ}$ F ( $2^{\circ}$ C)] Differentials: $\pm$ [0.5% rdg $+ 3.6^{\circ}$ F ( $2^{\circ}$ C)]			Above –148°F (–100°C): ±[0.15% rdg + 1.8°F (1°C)] Below –148°F (–100°C): ±[0.5% rdg + 3.6°F (2°C)] Differentials: ±[0.5% rdg + 1.8°F (1°C)]				
IR accuracy <sup>†</sup>	_			Above 14°F (–10°C): ±[2.0% rdg + 3.6°F (2°C)]  Below 14°F (–10°C): ±9°F (5°C)  T/C–IR differentials: ±[2.0% rdg + 5.4°F (3°C)] above 14°F (–10°C);  ±11°F (6°C) below 14°F (–10°C)				
Data logging	No	18,000 points <sup>‡</sup>		N	lo	18,000 points <sup>‡</sup>	10,000 points <sup>‡</sup>	
USB interface	No Yes			No Yes				
Relative time clock	Yes			Yes				
Offset compensation	Yes			Yes				
Temp differential	No Yes			Yes				
Data Hold	Yes			Yes				
Max/Min/Avg	Yes			Yes				
°C, °F, or K units	Yes			Yes				
Scan function	No			No		Yes		
Auto power-off	Yes			Yes				
Dimensions	6½" x 2½" x 1½" (16.5 x 6.4 x 2.9 cm)			8" x 3" x 2" (20.1 x 7.5 x 5 cm)				
Power	Three AAA batteries			One 9 V battery				
Accessories included <sup>‡</sup>	One flexible type K probe (per input), batteries, and NIST-traceable certificate with data and uncertainties			One flexible type K probe (per input), carrying case, battery, and NIST-traceable certificate with data and uncertainties				

<sup>&</sup>lt;sup>†</sup>Optional infrared wand (model 20250-24) must be ordered separately below.

**MW-20250-24 Optional infrared wand** for Professional thermocouple thermometers only. Features 8:1 distance-to-spot ratio. Measures 6½" x 2" x 1½" (16.4 x 5 x 4 cm). Includes one 9 V battery.





<sup>&</sup>lt;sup>‡</sup>Data logging models also include USB cable and software.