



**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.



Description	Thermocouple K/J thermometers			Professional thermocouple K thermometers with IR input†			
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†	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†	—			−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°F (−100°C): ±[0.5% rdg + 1.8°F (1°C)] Below −148°F (−100°C): ±[0.5% rdg + 3.6°F (2°C)] Differentials: ±[0.5% rdg + 3.6°F (2°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†	—			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‡		No		18,000 points‡	10,000 points‡
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 1⅛" (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‡	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			

†Optional infrared wand (model 20250-24) must be ordered separately below.

‡Data logging models also include USB cable and software.

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.

