



DIGI-SENSE®
THE STANDARD IN PRECISION MEASUREMENT



**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



Description	Thermocouple K/J thermometers			Professional thermocouple K thermometers with IR input [†]			
	WD-20250-01	WD-20250-02	WD-20250-03	WD-20250-18	WD-20250-17	WD-20250-19	WD-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.

WD-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.



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