

OAKTON[®] Acorn[™] Temp TC meters

These rugged **thermocouple thermometers** work with **type J, K and T probes** for a **wide temperature measurement range**

Use with type J, K or T thermocouple probes

offers wide -418 to 2501°F
(-250 to 1372°C) range

Type J (iron-constantan)

wide range; use in reducing environments

Type K (chromel-alumel)

widest range; use in oxidizing environments

Type T (copper-constantan)

best accuracy; good for ambient and sub-freezing measurements

Standard mini-connector

use with many widely available probes or order from our selection

All push button operation

for fast, easy use—no trimpots to adjust!

Compact size

fits right in your pocket—take your OAKTON Temp meter anywhere!

°C/°F selectable

Minimum and maximum temperature display

Displays highest/lowest temperature since meter was switched on, or use Min/Max Hold Mode to continuously update lowest/highest temperature

Temperature offset calibration adjustment

push-button adjustment for fine-tuning factory calibration

Hold function

freezes measurements for convenient reading and recording

Auto-off function

turns off meter after 17 minutes of non-use to save batteries

Optional protective boot

protects meter; features a built-in stand



Above: Meter shown actual size.

Top right: Compact size allows for easy use.

Middle right: Choose from a wide array of thermocouple probe types to best suit your application (left to right: surface probe; air/gas probe; penetration probe).

Lower right: Use with type K thermocouple probes for highest temperature range.



Rugged, multitype thermocouple thermometers at an economical price!

These compact, dependable thermometers allow you to use any type J, K or T thermocouple probes.

All push-button operation lets you display minimum/maximum temperature momentarily, or use MIN/MAX HOLD to continuously update lowest/highest temperature.

The Acorn Temp TC meter offers easy access connections for thermocouple probe. The splash-resistant membrane keypad helps protect meter components from occasional spills. The large LCD gives you a clear reading at a glance, and warns you of low-battery conditions or calibration errors. Order the optional rubber boot to protect your meter from drops and dings. See the back of this sheet for ordering information, complete specifications and accessories.

OAKTON[®] ...setting the standard, again and again[™]

Large Custom LCD for clear and easy readings.



Easy access connection for thermocouple miniconnector.



Splash-resistant membrane keypad helps protect components.



Optional rubber boot offers sturdy protection for meter and acts as meter stand for benchtop use.



ACORN™ Temp TC thermocouple meters

• Applications •

General Applications: Ideal for any application that requires measuring/monitoring the temperature of any liquid, solid, semisolid or gel.

Food Processing/Agricultural Applications: Use as a practical substitute for glass thermometers where the danger of product contamination exists. Use with a penetration probe for insertion into semisolids like fruits, semifrozen foods or soil.

Industrial Applications: Use in photo developing, chemical and plating industries, and all applications requiring temperature measurement.

Laboratory Applications: Monitor heating or cooling samples and reagents.

Educational Applications: An ideal student thermometer—select °C or °F with the push of a button, and avoid dangers from broken glass or mercury spillage.

HVAC Applications: Use Min/Max feature to monitor heating and cooling efficiency, flue gas temperatures, boiler water, heater jacket temperatures, inlet and outlet water heater temperatures, etc.

• Specifications •

Range	Type J: –200 to 1000°C/–328 to 1832°F; Type K: –250 to 1372°C/–418 to 2501°F; Type T: –250 to 400°C/–418 to 752°F
Resolution	0.1° from –99.9°C to 299.9°C / °F 1° outside this range
Accuracy (meter only)	±0.25% of reading plus 1°C / 2°F below –99.9°C / °F, ±0.25% of reading plus 0.5°C / 0.9°F above –99.9°C / °F

Calibration: factory calibrated, push-button offset adjustment

Input connector: standard miniconnector

Display: single line LCD

Operating Temperature: 0 to 50°C

Power: 4 x 1.5 V AAA batteries >200 hours continuous use (included)

Probe: use any type J, K or T thermocouple probe with mini-connector (not included)

Dimensions:

Meter: 5.5" x 2.7" x 1.3" (14 x 7 x 3.5 cm)

Boxed: 9.25" x 6.5" x 3.0" (23.5 x 16.5 x 7.5 cm)

Weight: Meter only: 0.9 lb (0.4 kg); Boxed: 1 lb (0.5 kg)

• Ordering Information •

ACORN™ Temp TC Meters

All meters include operating instructions and batteries. Temperature probe not included, order separately. Shipping weight: 1.0 lb (0.5 kg).

WD-35627-00 Temp TC meter

WD-35627-02 Temp TC meter with protective boot

WD-35627-05 Temp TC meter with general purpose type K thermocouple probe (WD-08439-62), 4.5" L with 5-ft coiled cable.

Temp range: –418 to 1650°F (–250 to 899°C). Response time: 30 seconds (in liquids)

WD-35627-80 Protective rubber boot for Temp TC meter, encases meter in sturdy rubber to protect it from drops and dings.

Also features meter stand for convenient tabletop use. Shipping weight: 0.5 lbs (0.2 kg)

WD-09376-00 Replacement batteries, 1.5 V AAA. 12/pack

NIST-Traceable Calibration and Certificates are available;
please contact your authorized OAKTON distributor for more information.

Thermocouple Probes

All probes listed below include an integral handle and a 5-ft coiled cable with a miniconnector.

General purpose and penetration probes feature a grounded junction for fast response. Shpg wt 0.2 lb (0.1 kg)

Catalog Number	Probe type	Temperature range	Response time	
WD-08517-55	J	–90 to 760°C / –310 to 1400°F	15 seconds (in liquids)	
WD-08516-55	K	–250 to 899°C / –418 to 1500°F	15 seconds (in liquids)	
WD-08500-55	T	–250 to 400°C / –418 to 752°F	15 seconds (in liquids)	

Penetration probes. Use for penetrating soft or semisoft materials.

WD-08517-65	J	–90 to 760°C / –310 to 1400°F	25 seconds (in liquids)	
WD-08516-65	K	–250 to 899°C / –418 to 1500°F	25 seconds (in liquids)	
WD-08500-65	T	–250 to 400°C / –418 to 752°F	25 seconds (in liquids)	

Air/gas probes. Feature a perforated shield to minimize error from radiated heat.

WD-08517-75	J	–90 to 760°C / –310 to 1400°F	225 seconds at 5 m/s airflow	
WD-08516-75	K	–250 to 899°C / –418 to 1500°F	225 seconds at 5 m/s airflow	
WD-08500-75	T	–250 to 400°C / –418 to 752°F	225 seconds at 5 m/s airflow	

Surface probes. Use for surfaces as hot plates, furnaces and molds. Exposed junction is isolated from 316 SS shaft and aluminum housing with ceramic support.

WD-08517-60	J	–90 to 760°C / –310 to 1400°F	30 seconds	
WD-08516-60	K	–250 to 899°C / –418 to 1500°F	30 seconds	
WD-08500-60	T	–250 to 400°C / –418 to 752°F	30 seconds	

See bulletin TEMP B1 for information on OAKTON ACORN thermistor and RTD thermometers.

• ORDER FROM •