

Thermocouple Meters 2500/1370 Series

2500/1370 Series Type K Thermocouple Meters

- **2500** Meter Range -100 to 2500°F
- **1370** Meter Range -70 to 1370°C
- Meter options for °F or °C range, display type and power
- Meter accuracy is $\pm 0.2\%$ of reading ± 1 digit
- Maxi-Temp® automatically holds peak reading
- Accepts all type K probes with ANSI mini-connectors
- Microprocessor circuitry for thermocouple linearization

Heat-Prober® Thermocouple Thermometers and Probes are rugged and reliable instruments made for process and maintenance temperature measurements.

The pocket-sized microprocessor-based Heat-Prober Type K thermometer updates readings three times per second with an accuracy of $\pm 0.2\%$ of reading ± 1 digit in 1°F or °C resolution. The precision cold junction is compensated with a unique, permanently calibrated circuit.

The Wahl Maxi-Temp peak hold switch, available on all models, permits the Heat-Prober to hold and display the highest temperature reached. This function is ideal where the operator must concentrate on the probe when making the measurement and where an instantaneous transient peak is to be recorded. Maxi-Temp meters also can be switched to normal operation.

Advanced electronics are housed in ABS plastic, thoroughly tested for environmental integrity and subjected to 4-foot drop tests, battery life and running life tests. All units are calibrated with simulated EMF inputs and powered during a high-temperature burn-in cycle.

Model 2500M (-100 to 2500°F) features a bright .33" high red LED display for normal to low lighting conditions. It operates on a rechargeable 6.25V NiCad battery pack. Includes battery recharger/AC line adapter.

Model 1370M as above with -70 to 1370°C range.

Model TCMR-K °F/°C switchable.

Model 2500MX (-100 to 2500°F) features a .5" high red LCD display for normal to bright lighting conditions. It operates on a rechargeable 6.25V NiCad battery pack. Includes battery recharger/AC line adapter.

Model 1370MX as above with -70 to 1370°C range.

Model TCMR-KX °F/°C switchable.

Model 2500MVX (-100 to 2500°F) features a .5" high red LCD display for normal to bright lighting conditions and is powered by an easily replaceable single standard 9V battery.

Model 1370MVX as above with -70 to 1370°C range.

Model TCMR-KVX °F/°C switchable.

See Meter specifications on page 13.

See pages 14-17 for interchangeable thermocouple probes.

See page 12-13 for 2500/1370 Series meter, probe, and accessory money-saving kits.



2500MX Type K Thermocouple Heat-Prober

NIST TRACEABLE THERMOCOUPLE CALIBRATORS



TA-70AFK Precision Calibrator in use with 2500MX Thermocouple Meter

This thermocouple meter accessory allows calibration over the meter's full range.

Useful for quick field diagnostics, it assures meter accuracy whenever a measurement is in question.

Accuracy is $\pm 0.3^\circ\text{F}/^\circ\text{C}$ or 0.2% of reading, whichever is greater.

User sends the calibrator only back to the factory for NIST Certification.

One Calibrator maintains NIST traceability for all in-house meters.

THERMOCOUPLE CALIBRATOR MODELS		
Model	Type	Calibration Points
TA50AFK	K	100°F - 155°F - 200°F - 250°F - 300°F
TA30AFK	K	40°F - 140°F - 170°F
TA70AFK	K	130°F - 650°F - 1300°F - 1900°F
TA70ACK	K	70°C - 400°C - 800°C - 1200°C
TA70AFT	T	32°F - 80°F - 150°F - 250°F

Calibration Services Available

Thermocouple Meter Specifications & Accessories

Thermocouple Meter Specifications

Thermocouple Meter Specifications								
Model	2500M	2500MX	2500MVX	1370M	1370MX	1370MVX	TM410	TM500
Range	-100°/2500°F			-70°/1370°C			-40°/1999°F -40°/1092°C	-328°/2498°F -200°/1370°C
Digital Display	LED	LCD	LCD	LED	LCD	LCD	LCD	Dual LCD
F/C Switch	Optional			Optional			Yes	Yes
Resolution	1°			1°			1.0° or 0.1°	0.1°
Meter Accuracy	±0.2% ±1 digit			±0.2% ±1 digit			±1.0°F @ 32°/200°F (±0.5°C @ 0°/93°C) 0.3% reading, ±2°F @ -40°/32°F (-40°/0°C) 0.3% reading, ±2°F @ 200°/1999°F ±0.4°C @ 93°/1092°C	±0.05% reading ±0.6°F (0.3°C) @ -58°/2498°F (-50°/1370°C) ±0.05% reading ±1.4°F (0.7°C) @ -58°/-328°F (-50°/-200°C)
Thermocouple Type	K			K			K	J, K
Peak Hold	Yes			Yes			Yes	Yes
Ambient Operating Range	-20°/120°F -29°/49°C	0°/120°F -18°/49°C		-20°/120°F -29°/49°C	0°/120°F -18°/49°C		32°/122°F 0°/50°C	9V
Power	6.25V NiCad Recharge Pk		9V	6.25V NiCad Recharge Pk		9V	Three 1.5V AAA	6.25V NiCad Recharge Pk
AC Power	Yes		No	Yes		No	No	No
Battery Life	8 hrs	50hrs	50hrs	8 hrs.	50hrs	50hrs	500 hrs.	50 hrs.
Low Battery Ind	Yes			Yes			Yes	Yes
Recharger Included	7.5V @ 100 mA 110 or 220 V AC		N/A	7.5V @ 100 mA 110 or 220 V AC		N/A	N/A	N/A
Size	6" x 3" x 1"			6" x 3" x 1"			6" x 2" x 3/4"	7.5" x 4" x 2"
Weight	10.5 oz. (298 g)			10.5 oz. (298 g)			3.6 oz. (102 g)	15.5 oz. (439 g)

THERMOCOUPLE METER ACCESSORIES

DA-4	Silicone Paste
DA-6	Belt-Clip Meter Case with Hand Strap
DA-10	Nylon Safety Wrist Strap
TA-60	Shock-Proof attache-style Instrument Case
11681-1	Spare NiCad Battery Pack
MN1604	Standard 9V Alkaline Battery
MA150	Battery Recharger, 110V AC 50/60Hz
MA150E	Battery Recharger, 220V AC 50/60Hz, European connector
METER OPTIONS	
NIST-12	Certificate with 3 Standard Calibration Points between 32°F(0°C) & 500°F(250°C). Meter calibration includes one probe.
NIST-12-1	Certificate with 3 User-specified Calibration Points between -40°F(-40°C) & 600°F(315°C). Meter calibration includes one probe.



Sample Meter Kit sold on pages 7 and 13. Kit includes Meter, Carrying Case, Calibrator, Wrist Strap, Recharger and Probe.