

PORTABLE THERMOCOUPLE THERMOMETERS

Models 5100 and 5200

Years of production and field experience have made these thermometers ideal for the most demanding applications, so we back them with a full 1 year warranty regardless of actual usage. Our rigid quality standards consist of vibration testing, temperature cycling, power-on discharge, and a double calibration procedure using NIST traceable standards. Also, our polymer coated circuits will perform properly in adverse environments.

TC calibrations available are **T, K, or J** linearized in four sections for good accuracy (calibration ranges other than those shown are available on special order).

RTD cold junction compensates accurately for ambient temperature changes as fast as 2° per minute.

Bright red LED display is .42" (11 mm) high for excellent readability in shaded sunlight or in a darkroom.

Impact resistant case with an edge viewable display and **snap-on neck strap** allows user to take readings and have one hand free.

Rechargeable NICAD battery pack is built-in and provides at least two years of minimum cost power. A single 8 hr. charge will operate the instrument at least 10 hrs.

Charger and neck strap are included with each instrument.

Wide variety of probes and cables are available for this meter. These probes and cables are built for long life in very demanding applications.

SPECIFICATIONS:

Display Range:

-199 to 1999 °F or °C. Usable range varies with TC type (see ordering section).

Measuring Accuracy:

± ½% of reading ±1 degree using ANSI millivolt-temperature standards.

Display Indication:

Updated three times per second on LED digits 0.42" (11 mm) high

Washable external storage well # ACCN-0105



MODEL 5100-PQ00 with probe TPC1-K105



MODEL 5100-DKC3 with coiled cable & connector

Built in calibration reference available. Simply press the push button on the back of the unit to display the calibration number to adjust.

Instrument Environmental Range:

-15° to 130°F or -26° to 54°C and 90% R.H. max.

Cold Junction Offset:

One degree max. for an ambient range of 32° to 110°F or 0° to 43°C.

Construction:

ABS case which measures 6.5" L x 3.5" W x 1.5" H and weighs 1 lb.

ORDERING INFORMATION

SCALE: _____

Fahrenheit reading
Celsius reading

PERMANENTLY ATTACHED PROBE: _____

HVAC probe with 3 ft. reach coiled cable (see detail)
Same as above with 5 ft reach

See "PERMANENT TC PROBES" sheet to select probe
specify separate probe number with this option

CABLE WITH CONNECTOR: _____

Coiled cable with 3 ft. reach (see detail)
Same as above with 5 ft reach
Heavy-duty 3 ft straight cable (see detail)
Same as above 5 ft long
Armored 3 ft Stainless Steel straight cable
Same as above 5 ft long

See "DETACHABLE TC PROBES" sheet to order probes

THERMOCOUPLE CALIBRATION:

K type 1/2% range is -60 to 2000°F (-50 to 1100°C)
K type, high accuracy ±1°F -30 to 400 ±2°F -50 to 550°F
T type 1/2% range is -60 to 400 °F (-50 to 205°C)
J type 1/2% range is -60 to 1400 °F (-50 to 750°C)

INSTALLED ACCESSORY: _____

Washable external storage well for food-use probes
1/8" dia. 5" lg. such as TPC1-K105

MODEL - OPTIONS

5 0 0 -

1
2

P	C 1
P	C 5
P	0 0

D	C 3
D	C 5
D	B 3
D	B 5
D	S 3
D	S 5

K
Q
T
J

A C C N - 0 1 0 5

* Prices and specifications are subject to change without notice

-PKC1 & -PKC5 Permanently attached coiled cable and probe.

This fast responding probe is ideal for gas and liquids and soft solids.
Construction: Stainless steel #304, 4.5" x 0.11" dia. immersible.
Response time: 8 seconds in water, 50 seconds in air.



-DKC3 & -DKC5 Cables for use with detachable TC-K probes.

1/4" dia. polyurethanes cable, coiled for maximum flexibility, with a STANDARD size connector.



-DKB3 & -DKB5 Heavy-duty cables for use with detachable TC-K probes.

1/4" dia. straight polyurethane cable, reinforced with a flexible steel core for maximum strength.



DS5100 10/97

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