

# PRECISION PORTABLE THERMOMETERS

## Models 2300 and 2400

After many years of field use, these digital thermometers earned the reputation of maintaining accuracy while under rigorous use. The rugged construction features a high impact ABS plastic case, heavy-duty coiled cord, long-life sealed switches and moisture protected circuits for use in high humidity environments. A calibration feature is also included which permits field calibration of the instrument and provides assurance of factory accuracy each time.

The **nickel RTD precision sensor** is repeatable to  $\pm 0.1$  degree over the entire measuring range.

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

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

**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.

**Built in calibration reference.** Simply actuate the switch to display the calibration number and turn the adjustor to match the factory accuracy.

**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:**

#### **Measuring Range:**

Usable range is  $-50.0$  to  $250.0$  °F ( $-50$  to  $121$  °C).  
Probe limit is  $-75$  to  $275$  °F.

#### **Measuring Accuracy:**

Temp °F:	<u>-50</u>	<u>70</u>	<u>250</u>
2300-PN	$\pm 0.3$	$\pm 0.1$	$\pm 0.3$
2300-DN	$\pm 0.8$	$\pm 0.2$	$\pm 0.8$
Temp °C:	<u>-45</u>	<u>20</u>	<u>120</u>
2400-PN	$\pm 0.2$	$\pm 0.1$	$\pm 0.2$
2400-DN	$\pm 0.4$	$\pm 0.1$	$\pm 0.4$

Washable external storage well # ACCN-0105



MODEL 2300-PN00 with FOOD-USE probe TPC1-N105



MODEL 2300-PNC1 with HVAC probe for gas/liquid

**Charger and neck strap** are included with each instrument.

#### **Instrument Environmental Range:**

$-20^{\circ}$  to  $140^{\circ}$  F ( $-30^{\circ}$  to  $60^{\circ}$  C) and 90% RH max.

#### **Ambient Temperature Effects:**

0.15% of reading while meter is at  $0^{\circ}$  or  $120^{\circ}$  F and adjusted to agree with factory calibration.

#### **Display Indication:**

Updated 3 times per second on LED digits  
0.42" (11mm) high.

#### **Construction:**

Unit measures 6.5" L x 3.5" W x 1.5" H and weighs 1 lb. without probe.

**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 PROBES" sheet to select probe  
specify separate probe number with this option

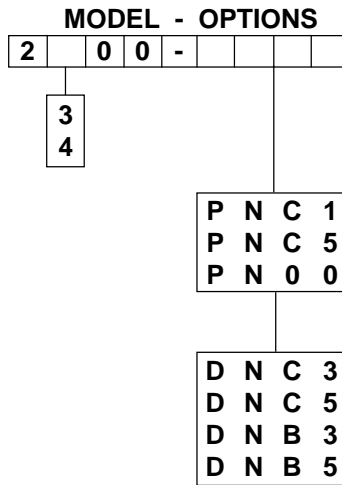
**CABLE WITH CONNECTOR:** \_\_\_\_\_

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

See "DETACHABLE PROBES" sheet to select probe

**INSTALLED ACCESSORY:** \_\_\_\_\_

Washable external storage well for food-use probes  
1/8" dia. 5" lg. such as TPC1-N105



**A C C N - 0 1 0 5**

\* Specifications are subject to change without notice

**-PNC1 & -PNC5 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 0.109" dia. immersible.  
Response time: 8 seconds in water, 50 seconds in air.



**-DNC3 & -DNC5 Cables for use with detachable RTD-NI probes.**

1/4" dia. polyurethane cable, coiled for maximum flexibility, with DIN precision connectors.



**-DNB3 & -DNB5 Heavy-duty cables for use with detachable RTD-NI probes.**

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



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