

## THERMOMETER FOR "QUALITY CONTROL" USES

Models 769-X9 & 789-X9

These thermometers are housed in sealed enclosures suitable for continuous use in high humidity or wash-down areas. Meters come complete with permanently attached probes calibrated to provide matched accuracy. These probes are constructed of tough, long-life materials, and can be custom optimized to meet specific customer requirements. Typical monitoring applications include batch cooking of fudge, hard and soft candies and any product where the processing temperature is critical. Built-in quality gives these instruments an excellent combination of accuracy and durability.

### FEATURES:

**Thermocouple type K** wire is used because of its superior mechanical strength and corrosion resistance.

**RTD cold junction** tracks ambient temperature changes and compensates accurately and without lag.

#### **Display Indication:**

Updated twice per second on 0.5" (13mm) high LCD. "LO BAT" for low battery and a plain "1" for open thermocouple.

**Heavy-duty probes** are designed for use in batch production applications. **Long flex-life cables** are steel reinforced and are jacketed for either cold or hot environments. See backside for details.

### SPECIFICATIONS:

#### **Measuring Range:**

Based on calibration and probe construction range is -60° to 600° F (-50° to 316° C).

#### **Measuring Accuracy:**

±1 degree from -30° to 400° F using NBS traceable references in calibration baths. Accuracy to the extremes of the range is ±2° F.

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

-5° to 120° F (-21° to 49° C).

#### **Cold Junction Offset:**

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



**ENGINEERED AND MANUFACTURED IN WI, U.S.A.**

**Washable enclosure** is made of heavy wall molded plastic with convenient external mounting feet and gasket sealed front cover.

\* *Locate outdoors in shaded space.*

\*\* *Enclosure is NEMA-4X rated and UL listed.*

#### **Display Indication:**

Updated twice per second on 0.5" (13mm) high LCD.

#### **Construction:**

Molded polycarbonate 4.8"sq x 2.3"dp box with a NEMA-4X rating and external feet for wall mounting. External fasteners are 1/4-turn stainless steel.

#### **Power Requirement:**

One or two "9V" alkaline batteries for 2000 hours (with two) or 250 days when operated 8 hrs/day.

#### **Weight:**

Appx. 1.0 lb (0.45 kg.) without probes.

**DESCRIPTION:**

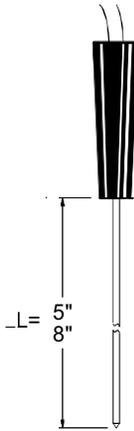
**OPTION -MODEL**  
**9 1 5 0 - 0 7 9 - X9**  
**6**  
**8**

**SCALE:**

Meter with one 9V Battery  
 Fahrenheit  
 Celsius

**IMCs Cable-Probes** are manufactured for applications in the food, beverage, and chemical industries. Probe construction includes a 7x7 stranded steel core for strength, a phenolic handle for temperature resistance and a choice of cables for most requirements. **Type 4** cable construction is rated for -30 to 200 °F in applications that require abrasion and cut-through resistance. This cable is jacketed with 5/16" dia. polyurethane. **Type 5** cable construction is rated for -100 to 500 °F with long flex-life materials. This cable has Teflon insulated conductors that are protected by a 5/16" dia. silicone jacket. **Type 6** 3/8" Poly with 5/32" SST Armor. Optional 1/4" dia. stainless steel armored cables are also available but not recommended for food contact applications. Handles are 3.25" long x .94" tapered with either side or back cable exit.

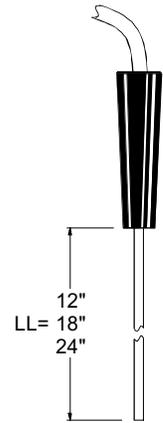
Pointed tip for use to sample semi-solids such as meat, ice cream, vegetables, or pre-drilled hard-frozen foodstuff. The stem is .125 dia. fully tempered HD stainless steel #304. The probe and polyurethane cable are fully immersable.



PROBE #	CABLE LEN.
PKP4-06P4-0L	6 ft
PKP4-12P4-0L	12 ft

99% Response time in oil = 12 secs.

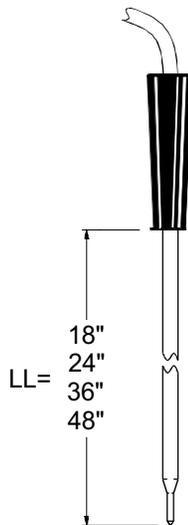
Fast responding immersion probe for use with beverages or other low viscosity mixes. Stem is made of .19 dia bendable stainless steel #304. Rounded tip design allows resting onto container bottom without distorting readings. The silicone cable is heat resistant and washable.



PROBE #	CABLE LEN.
PKP5-06Z6-LL	6 ft
PKP5-12Z6-LL	12 ft

99% Response time in oil = 18 secs.

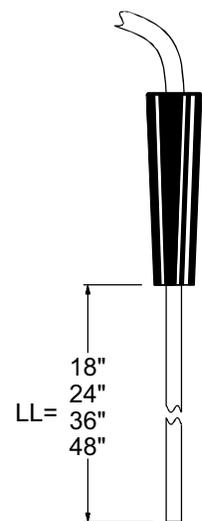
Pointed tip for use to probe liquids or semi-solids with long reach. Stem is made from .25 dia. bendable stainless steel #304 and steps down to .125 dia. rigid tip for easy penetration and fast response. Probe and polyurethane cable are fully immersable.



PROBE #	CABLE LEN.
PKP4-06T8-LL	6 ft
PKP4-12T8-LL	12 ft

99% Response time in oil = 16 secs.

Heavy-duty immersion probe for use in semi-liquid mixes such as, fudge, chocolate, soups, etc. Stem is made of .25 dia. bendable grade stainless steel #304. Rounded tip design allows resting onto kettle wall without distorting readings. The silicone cable is heat resistant and washable.



PROBE #	CABLE LEN.
PKP5-06Z8-LL	6 ft
PKP5-12Z8-LL	12 ft

99% Response time in oil = 24 secs.

**ORDERING INFORMATION:** Contact factory or distributor listed below for assistance. Products are warranted against material or workmanship defects for a full year from date of shipment.

Specifications are subject to change without notice.

DS-0769-X9-v10-09

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