

THERMOMETER FOR "LABORATORY" USES

Models 469 & 489

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 biomedical freezers, incubators, temperature baths, photo-developers or any product or process where temperature is critical. Built in quality gives these instruments an excellent combination of accuracy and durability.



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

FEATURES:

Nickel RTD sensor has excellent long-term stability and repeatability of 1/10 of one degree.

Large bright display is about ½" high-red for excellent readability.

The probe and the measuring circuits are calibrated as a system providing a **total tolerance of ±0.1 degree** over the mid-range.

Moisture proof enclosure is made of heavy wall thermoplastic. Convenient external mounting feet eliminate the need to open the gasketed front cover.

Large selection of probes are available for low cost permanent installations or for continuous use where cable flexibility is desired. Probe stem sizes range from .08 dia x 2" to 1/4 dia x 6 ft long. Cables range from 3/16" to 3/8" dia. x 75 ft long.

SPECIFICATIONS:

Display Range:

-199.9° to +199.9° F or C. Usable range is -60° to 199.9° F (-70° to 121° C). Probe limit is 300°F.

Measuring Accuracy:

±0.2°F (±0.1°C) for readings from 32° to 160°F (0° to 70°C) and ±0.4°F (±0.2°C) to the extremes.

Ambient Temperature Effects:

±0.2°F max. from 40° to 105°F (5° to 40° C, or ±0.005 deg. per deg. offset from 70°F (21°C).

Instrument Environmental Range:

-10° to 120°F (-23° to 49° C).

Weight:

Approximately 1.2 lbs. (0.54 kg.) without probe.

Cable Resistance Effect:

Negligible with factory calibration (2 wire 18GA 75 ft. max). Field calibration is also possible.

Display Indication:

Updated three times per second on LED digits 0.56" (11mm) high.

Construction:

PVC molded 4" x 4" x 2½" splash-proof enclosure. Exposed hardware is stainless steel.

Power Requirements:

Supplied with a 5ft. power cord for 120 VAC 50/60 HZ. Optional configurations are available.

DESCRIPTION:

Meter with 5 ft power cord for line voltage operation

SCALE:

Fahrenheit
Celsius

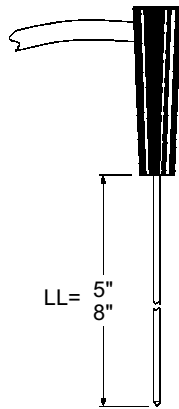
OPTION - MODEL

9 4 1 0 - 0 4 9

6
8

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 3/8" 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. 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.

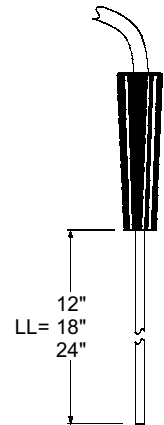
For use to sample semi-solids such as meat, ice cream, vegetables, or pre-drilled hard-frozen foodstuff. The stem is .125 dia. fully tempered stainless steel #304. The probe and polyurethane cable are fully immersible.



PROBE #	CABLE LEN.
8018-0914-LL	6 ft
8018-1914-LL	12 ft

99% Response time in oil = 12 secs.

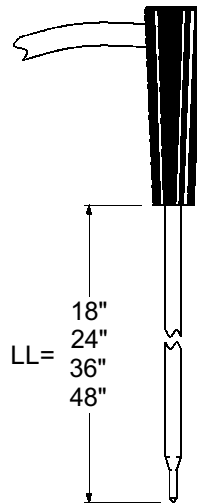
Fast responding immersion probe for use with beverages or other low viscosity mixes. Stem is made of .19 dia bendable stainless steel #304. The silicone cable is heat resistant and washable.



PROBE #	CABLE LEN.
8018-0875-LL	6 ft
8018-1875-LL	12 ft

99% Response time in oil = 18 secs.

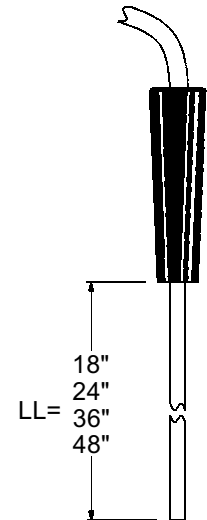
For use to probe liquids or semi-solids with long reach. Stem is made from .25 dia. bendable stainless steel #304 and steps down to .125 dia. rigid tip for easy penetration and fast response. Probe and polyurethane cable are fully immersible.



PROBE #	CABLE LEN.
8018-0964-LL	6 ft
8018-1964-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. The silicone cable is heat resistant and washable.



PROBE #	CABLE LEN.
8018-0885-LL	6 ft
8018-1885-LL	12 ft

99% Response time in oil = 24 secs.

ORDERING INFORMATION: All prices listed above are F.O.B. factory or distributor warehouse. Contact 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.

DS0469-05/97



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