

SPECIFICATIONS

Range: -58 to 2000 °F (-50 to 1300 °C)

Resolution: 0.1° / 1°

Sampling Rate: 2.5 times per second

TEMPERATURE MEASUREMENT

1. Insert the probe plug into the socket at the top of the meter. The plug and sockets are keyed with a small and large pin. Make certain that the plug is inserted correctly. Do not insert the plug incorrectly and force the connection.
2. Press the ON/OFF button to turn the meter on.
3. Press the °C/°F button to select °F or °C.
4. Place the probe in contact with the material to be measured and read the temperature on the display.
5. Press the ON/OFF button to turn the meter off. To conserve battery life, always turn off the meter when not in use.

After 20 minutes, the meter will automatically turn off to preserve battery life. To disable this feature, see the “Automatic Shutoff Disable” section.

PROBE SUPPLIED

The probe supplied is an ultra-fast response Type-K thermocouple naked bead probe with teflon insulation. The maximum operating temperature range for this thermocouple is 500°F (260°C). Additional probes, including a stainless steel triple purpose probe with handle, are available (see the “Accessories” section).

Longer leads and extension may be used. The lead effect for 164 feet (50 meters) is generally less than 0.2°C with a limit of error of 2.2°C. Type-K wire and Type-K connectors must be used.

HOLD

Press the HOLD button to “freeze” the display at the current reading (HOLD will appear on the display). Press the HOLD button again to return to the current temperature reading.

MAX HOLD

In MAX HOLD mode, the highest temperature measurement achieved is displayed. This value will update each time a new higher temperature is measured.

To enter the MAX HOLD mode, while taking temperature measurements, press and release the MAX HLD button (MAX HOLD will appear on the display). The display will show the maximum temperature measurement achieved and will be updated when a new higher temperature is measured.

To exit the MAX HOLD mode, press and release the MAX HLD button (MAX HOLD will no longer appear on the display). The display will show the current temperature measurement. The MAX HOLD mode may also be exited by pressing the ON/OFF button which will turn off the thermometer.

AUTOMATIC SHUTOFF DISABLE

The Automatic Shutoff feature will turn the meter off after 20 minutes to preserve battery life. This feature is automatically enabled each time the meter is powered on, regardless of whether the feature was disabled previously.

To disable the Automatic Shutoff feature: While the meter is turned off, press and hold the HOLD button, then press and hold the ON/OFF button until “n” appears on the display (indicating that the Automatic Shutoff feature has been disabled). Release the ON/OFF and HOLD buttons, the meter will then display the current temperature.

With the Automatic Shutoff feature disabled, the meter will remain on until the ON/OFF button is pressed, or until the battery is fully drained.

DISPLAY MESSAGES

---- indicates that no probe is present or that the attached probe is damaged.



indicates that the battery is low and needs replacement (see the “Battery Replacement” section).

ALL OPERATIONAL DIFFICULTIES

If this thermometer does not function properly for any reason, replace the battery with a new high quality battery (see the “Battery Replacement” section). Low battery power can occasionally cause any number of “apparent” operational difficulties. Replacing the battery with a new fresh battery will solve most difficulties.

BATTERY REPLACEMENT

An erratic display, faint display, no display, or  appearing on the display are all indicators that the battery needs replacement. To replace the battery, remove the battery cover screw (located on the back of the meter). Remove the battery cover. Remove the exhausted battery and replace it with a new 9-volt alkaline battery. Replace the battery cover. Replace the battery cover screw and tighten securely.

ACCESSORIES

Cat. No. 4008 Surface Probe—

Temperature range is -73 to 760°C . Dimensions: 5-inch probe length; 0.5-inch tip diameter; $8\frac{1}{2}$ -inch overall length. Supplied with 36-inch cable.

Cat. No. 4014 Stainless Steel Probe—

Stainless-steel, triple purpose (liquids, air/gas, and semi-solids), Type-K probe. Temperature range is -50 to 700°C . Dimensions: 0.13-inch diameter; $6\frac{1}{4}$ -inch stem length; $9\frac{3}{4}$ -inch overall length. Supplied with 40-inch cable.

Cat. No. 4028 Beaded Probe—

Fast-Response, Type-K thermocouple, beaded probe. Teflon cable can withstand temperatures of -40 to 250°C continuous or 300°C short-term use. Dimensions: 0.06-inch diameter probe with cable length of 4 feet for use in liquids, air/gas, and semi solids.

Cat. No. 8039 Low-Temperature Probe—

Stainless-steel; triple purpose (liquids, air/gas, and semi-solids), Type-K probe. Temperature range is -240 to 220°C . Dimensions: diameter 0.17 inch; stem length 12 inches; overall length 17 inches. Supplied with 8-foot cable.

Cat. No. 8613 High-Temperature Probe—

Ten-foot-long, 0.19-inch diameter braided metal wire cable with smooth tip measures -73 to 982°C continuous or 1093°C short-term use. For use in liquids, air/gas, and semi-solids.

TRACEABLE® BIG DIGIT TYPE-K THERMOMETER INSTRUCTIONS