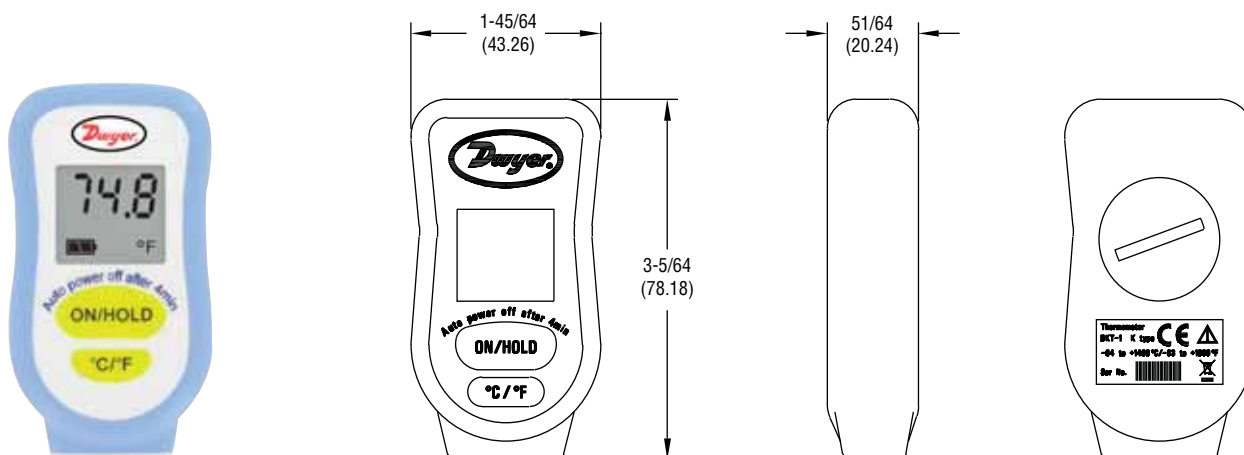




## Model DKT-1 Pocket-Size Thermocouple Thermometer

### Specifications - Installation and Operating Instructions



The **Model DKT-1 Pocket-Size Thermocouple Thermometer** accurately monitors temperatures in a variety of applications. The wide measurement range and selectable engineering units allow users to easily view readings in either °F or °C. The automatic power down feature conserves battery life. This compact thermometer accepts any K-type thermocouple sensors (sold separately) with min-plug connectors.

#### PROBE MEASUREMENTS

With the appropriate K-type thermocouple connected to the thermocouple plug, the thermometer is ready to take measurements. Power the thermometer on by pressing the ON/HOLD button. The device will begin reading. The °F or °C designator will flash while taking readings. The thermometer will automatically power down after 4 minutes to conserve battery life. Pressing the "ON/HOLD" key during measurements will hold the current reading for 15 seconds. After 15 seconds, the device will power down to conserve battery life.

#### ENGINEERING UNITS

The thermometer can measure °F or °C. To change the units, turn on the unit by pressing the "ON/HOLD". Press the "ON/HOLD" key again and the words "hold" will display. While the display is holding the last reading, press the "°C/°F" button to change the units.

#### SPECIFICATIONS

**Range:** -83.2 to 1999°F (-64 to 1400°C).

**Ambient Operating Temperature:** 32 to 122°F (0 to 50°C).

**Accuracy:** +/- 1% of Reading or 1.8°F (1.0°C).

**Probe Connection:** K-type mini-jack.

**Resolution:** 0.1°F/°C.

**Battery Life:** CR2032 lithium battery - estimated 100 hours continuous use.

**Weight:** 1.42 oz (40.15g).

**Agency Approvals:** CE.

#### LCD ERROR MESSAGES

The thermometer incorporates visual diagnostic messages as follows:

**'Er2':** Displays when the thermometer is exposed to rapid changes in the ambient temperature.

**'Er3':** Displays when the ambient temperature exceeds 32°F (0°C) or 122°F (50°C). The thermometer should be allowed plenty of time (minimum 30 minutes) to stabilize to the working/room temperature.

For all other error messages it is necessary to reset the thermometer. To reset it, wait for the instrument to power off, remove the battery and wait for a minimum of one minute, reinsert the battery and turn it on. If the error message remains please contact Dwyer Customer Service Department for further assistance.

## BATTERIES

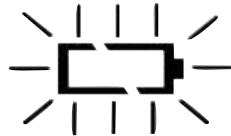
The thermometer incorporates visual low battery indication as follows.



**Battery OK:** Measurements are possible.



**Battery Low:** Battery needs to be replaced, measurements are still possible.



**Battery Exhausted:** Measurements are not possible. When the low battery icon indicates the battery is low, the batteries should be replaced immediately with a CR2032 lithium cell battery using the below steps.

The battery is located under the twist cover in the rear of the device. Using a coin or flat head screwdriver, twist the cover counterclockwise. Remove the cover and remove the battery. Insert one CR2032 (3V) lithium cell battery according to the diagram located in the battery slot.

**NOTE:** *It is important to allow the thermometer to power off before replacing the batteries otherwise the thermometer may malfunction. Dispose of used batteries promptly and keep away from children.*

## CAUTION:

1. To avoid electrical shock, do not use this instrument when voltages at the measurement surface exceed 24V AC or DC.
2. To avoid damage or burns, do not make temperature measurements in microwave ovens.
3. Excess stress may cause probe to break.
4. Proceeding a high temperature measurement, the probe may be hot.
5. The probe may cause harm/injury. Precautions should be taken when handling the device.
6. To adjust for various applications, the user should choose the proper probe accordingly.
7. To prevent damage to the probe, do not exceed the measurement temperature range.

## EMC/RFI Cautions:

The readings may be affected if the unit is operated within radio frequency electromagnetic field strength of approximately 3 volts per meter, but the performance of the instrument will not be permanently affected.

## MAINTENANCE

A periodic check of the system calibration is recommended. The Model DKT-1 is not field serviceable and should be returned if repair is needed (field repair should not be attempted and may void warranty). Be sure to include a brief description of the problem plus any relevant application notes. Contact customer service to receive a return goods authorization number before shipping.