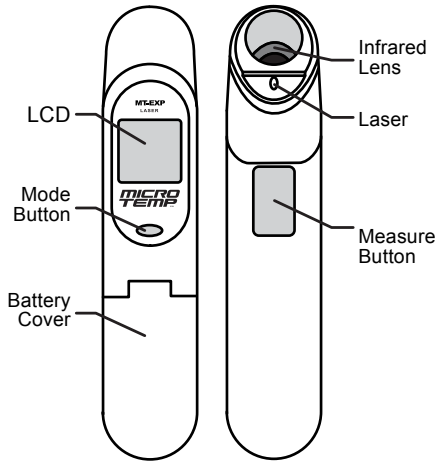


Operating Instructions

MT-EXP DIGITAL INFRARED THERMOMETER

**MICRO
TEMP**
DIGITAL INFRARED THERMOMETERS

The **MT-EXP** thermometer is a non-contact infrared thermometer with Real-Time Maximum (MAX) data. The **MT-EXP** infrared thermometer includes a laser device that enhances the user's ability to accurately target the surface to be measured. This laser, as with all lasers, can be dangerous to the eye. Never point the laser directly into your eyes or anyone else's eyes.



TO USE:

1. Simply aim the thermometer at the target to be measured with the lens. Press the Measurement button to display the surface temperature.
2. During the measurement, the MAX reading will be displayed beside the icon
3. The distance-to-spot ratio (D:S) is 9:1. This means that at a distance of 9 inches from the surface, the **MT-EXP** reads a circle with a diameter of 1 inch.
4. If not used for 15 seconds, the **MT-EXP** will automatically turn off to preserve battery life.

LCD ERROR MESSAGES:

The **MT-EXP** incorporates visual diagnostic messages as follows:

- * 'Er2' is displayed when the thermometer is exposed to rapid changes in the ambient temperature.
- * 'Er3' is displayed when the ambient temperature $-72^{\circ}\text{F}(-60^{\circ}\text{C})$ or $+932^{\circ}\text{F}(+500^{\circ}\text{C})$.

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, turn the instrument off, remove the battery and wait for a minimum of one minute, reinsert the battery and turn on.

CELSIUS OR FAHRENHEIT MODE:

$^{\circ}\text{C}$ or $^{\circ}\text{F}$: Press Mode key.

Backlight LCD Backlight: Always on

Laser: Always on

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.

* Note: Under the electromagnetic field of 3V/m from 350 to 550MHZ, the maximum error is 8°C (14.4°F).

BATTERIES:

The thermometer incorporates a visual low battery indication as follows:

When the 'Low Battery' icon appears the battery should be replaced immediately.

Note: It is important to turn the instrument off before replacing the battery otherwise the thermometer may malfunction.



'Battery OK':
functioning
properly



'Battery Low':
battery needs to
be replaced, still
functions



'Battery Exhausted':
not functioning

SPECIFICATIONS:

Measurement Range:	$-76^{\circ}\text{F} \sim +752^{\circ}\text{F}$ ($-60^{\circ}\text{C} \sim +400^{\circ}\text{C}$)
Operating Range:	$32^{\circ}\text{F} \sim 122^{\circ}\text{F}$ ($0^{\circ}\text{C} \sim 50^{\circ}\text{C}$)
Accuracy:	$\pm 1.8^{\circ}\text{F}$ (1.0°C)
Emissivity Setting:	0.95 fixed
Resolution:	$0.1^{\circ}\text{F}/0.1^{\circ}\text{C}$ at $-9.9 \sim 199.9^{\circ}\text{C}$
Response Time:	1sec
Distance to Spot ratio (D:S):	9:1
Batteries:	2 AAA, included
Battery Life:	14 hours minimum
Dimensions:	6.9" x 1.53" x 2.8" (175.2 x 39.0 x 71.9mm)
Weight (with batteries):	6.3oz (179 grams)

STORAGE & CLEANING

The sensor lens is the most delicate part of the thermometer. The lens should be kept clean at all times. Care should be taken when cleaning the lens. To clean the lens, use only a soft cloth or cotton swab with water or medical alcohol. Allow the lens to fully dry before using the thermometer. Do not submerge any part of the thermometer. The thermometer should be stored at room temperature between -4°F to $+149^{\circ}\text{F}$ (-20°C to $+65^{\circ}\text{C}$).

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