Series IR2 Infrared Non-Contact Thermometer

12:1 Distance-to-Target Size, Laser Sighting

1-35/64
(39.29)

6-15/16
(176.21)

5-7/8
(149.23)
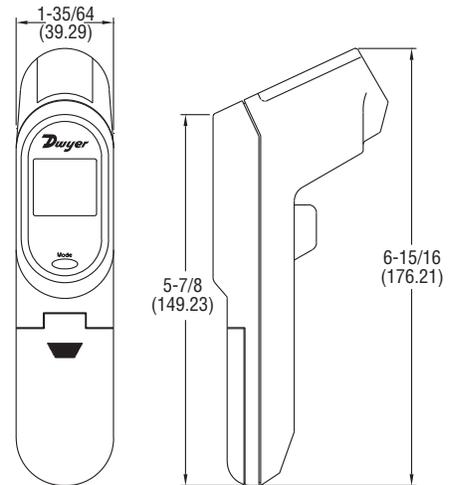
The Series IR2 Infrared Temperature Thermometer allows users to economically take accurate measurements in hard to reach areas. Measurements can be taken at a safe distance with a 12:1 Distance to Target Ratio. The IR2 easily takes measurements within 2% accuracy using a built-in laser sighting. The fixed emissivity of 0.95 is perfect for measuring surface temperatures of concrete, asphalt, rubber, or oxidized metals. Besides reading the process temperature, the back lit display will also read the maximum temperature captured during scan.

SPECIFICATIONS

Measurement Range: -76 to 932°F (-60 to 500°C).
Accuracy: 2% of reading or 4°F (2°C) whichever is greater.
Emissivity: 0.95 fixed.
**Distance to Target:** 12:1.
Resolution: 0.1°F/0.1°C.
Response Time: 1 sec.
Operating Range: 32 to 122°F (0 to 50°C).
Average Battery Life: 180 hours of continuous use, (2) AAA batteries included.
Weight: 3.61 oz (179 g).
Dimensions: 6.90 x 1.54 x 2.83 in (175.2 x 39.0 x 71.9 mm).

④ Infrared Lens
⑤ Laser
① LCD
⑥ Meas. key
② Mode key
③ Battery Cover
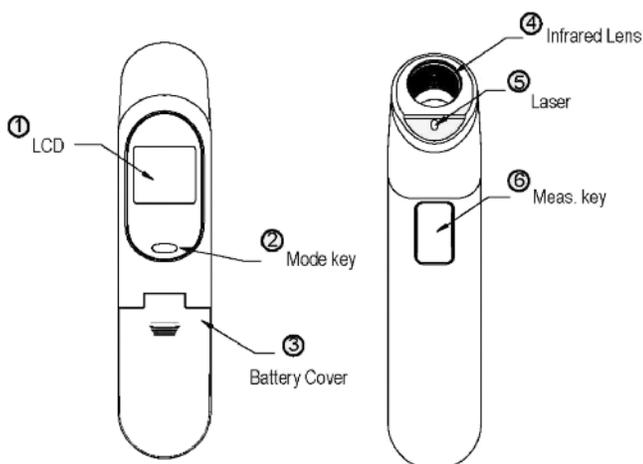
OPERATING INSTRUCTIONS

Simply aim thermometer at the target and press the "MEAS" key to display the surface temperature.

°C or °F: Press the "MODE" key to switch between °F and °C.
Backlight: LCD Backlight always on.
Laser: Class II Laser: always enable while measuring.

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Error Messages
The thermometer incorporates visual diagnostics 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, turn the instrument 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 the 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 AAA, 1.5V batteries.
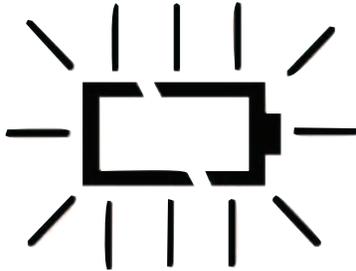
Please Note: It is important to turn the thermometer off before replacing the battery otherwise the thermometer may malfunction. Dispose of used battery promptly and keep away from children.

CAUTION
1. When device is in use, do not look directly into the laser beam - Permanent eye damage may result.
2. Use extreme caution when operating the laser.
3. Never point the device towards anyone's eyes.
4. Keep out of reach of all children.

EMC/RFI
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 550 MHz, the maximum error is 14.4°F (8°C).

MAINTENANCE
A periodic check of the system calibration is recommended. The Series IR2 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.

Storage and 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 using only a soft cloth or cotton swab with water or medical alcohol. Allowing 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 and 149ºF (-20 to 65ºC).