



HarborShield™
by PLUM GROVE

NON-CONTACT INFRARED THERMOMETER

Model: JRT-18



Instruction Manual

Features

The HarborShield™ Infrared Thermometer measures temperature by collecting the infrared heat radiating from a surface. The thermometer can measure both human body and surface temperatures. The thermometer has a one second read time and automatically shuts off after 15 seconds of inactivity.

- ✓ 1 second read time
- ✓ Select Fahrenheit (°F) or Celsius (°C)
- ✓ Auto shut off
- ✓ Accuracy $\pm 0.2^{\circ}\text{C} / \pm 0.4^{\circ}\text{F}$
- ✓ Historical readings logged in memory
- ✓ FDA registered

Infrared thermometers are designed to measure surface temperatures and NOT the internal temperature of food or other materials. Food temperatures can only be accurately and safely taken using a probe thermometer designed specifically for cooking.

Infrared thermometers are widely used in manufacturing processes, HVAC and concrete.

Screen Display



- 1) Body or Surface mode
- 2) Temperature
- 3) Historical log of temperature readings stored in memory
- 4) Temperature units
- 5) Historical temperature readings

Setup

Insert Batteries

- 1) Open Battery cover located on the bottom of the thermometer handle.



- 2) Insert 2 "AAA" alkaline batteries (not included) following the positive and negative connection indicators on the batteries.



- 3) Thermometer will "Beep" once when batteries are inserted correctly.

Set Temperature Units (°F / °C)

- 1) Pull the trigger on the thermometer and quickly release to turn thermometer on.



- 2) Press "Setup" button on side of thermometer for 2 seconds and release.
- 3) "F1" appears on display for Fahrenheit units. To select Fahrenheit units, pull trigger. For Celsius units, go to next step.
- 4) To select Celsius units, press (-) button on side of thermometer.
- 5) Press "Setup" button to save.

Using the Thermometer

Take Temperature

- 1) Slide switch on side of thermometer to Body or Surface Mode.
- 2) Point thermometer at forehead or other surface.
 - For accurate body temperature, hold thermometer 2-4 in. from forehead.
 - For accurate surface temperature, hold thermometer 2-4 in. from surface.
- 3) Press the trigger and release after 1 second when you hear a "Beep".
 - Thermometer will sound "Beep" alerts for a few seconds when Body Temperature exceeds 100.4°F (38°C).
 - Color-Coded Display (Body Mode only)

Green - Reading is between 95°F and 99°F.

Yellow - Reading is below 95°F ("Lo" warning appears and thermometer beeps for a few seconds). Or, reading is between 99°F-100.4°F.

Red - Reading is between 100.4°F and 107.6°F. "Hi" warning if temperature is over 107.6°F.

Using the Thermometer

(Continued)



View Temperature Log History

- 1) Take temperature by pulling trigger.
- 2) Press (-) button on side of thermometer to view previous temperature readings that have been stored in memory.
- 3) Press (+) to advance to the most current temperature reading.



Historical Temperature Reading

Turn Audible Alert ON/OFF

Follow these steps to turn the audible "Beep" alerts ON or OFF.

- 1) Pull trigger to activate thermometer.
- 2) Press "Setup" button on side of thermometer for 2 seconds and release.
- 3) "F1" appears on display. Press "Setup" button 3 times until "F4" appears on display.
- 4) Press "+" button to turn sound alert ON (Alert Icon appears on display home screen) or press "-" button to turn sound OFF (alert icon disappears from display).
- 5) To save, press "Setup" button until "OFF" appears on the display.

Alert Icon Indicates Sound is ON



Accuracy

Infrared thermometer accuracy may be affected by:

- Frost, moisture, dust, fog, smoke, particles in the air or extreme temperature and/or humidity.
- Air conditioning or fans blowing nearby.
- Rapid changes in ambient temperature.
- Dropping the thermometer.
- Proximity to a radio frequency with an electromagnetic field strength of 3 volts per meter or greater.

Cautions & Limitations

- Do not immerse in water. Thermometer is not waterproof.
- Use caution around extremely hot surfaces and open flames.
- IR thermometers are meant to measure surface temperature and NOT the internal temperature of food.
- Thermometer cannot measure the temperature of objects immersed in liquid or under water. Temperature reading will be of the liquid itself.
- Thermometer cannot measure the temperature of objects through transparent surfaces (ex. windows). Temperature reading will be of the glass surface and not the area beyond.
- Remove batteries during long periods of inactivity.

Specifications

Non Contact Infrared Thermometer

Model: JRT-018

Power Supply: d.c.3.0V

Body Temperature Range 95.0-107.6°F (35.0-42.0°C)

Accuracy ±0.2°C/±0.4°F

Surface Temperature Range 32.0-212°F (0.0-100.0°C)

Accuracy ±0.2°C/±0.4°F

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Permit Number: Hunan Food and Drug Administration Machinery Production Xu No. 20190004
Registration Certificate Number: Xiang mechanical injection accuracy 20202070688
Model: JRT-018

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