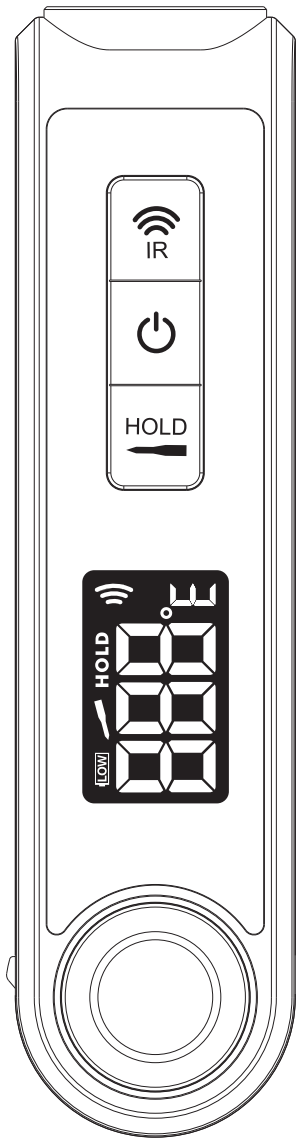
BIOS
Professional

Infrared Probe Thermometer
PS198



Thank you for purchasing the BIOS Professional Infrared Probe Thermometer. This thermometer offers quick, accurate temperature measurements with both a non-contact infrared sensor and a probe for deeper readings. Compact and easy to use, it's perfect for food industry applications, ensuring reliable results for both surface and internal temperatures.

Please read through this manual carefully before operating this product. Keep this document on hand so you can refer to it when necessary.

SAFETY INFORMATION

- Always operate this instrument properly and according to its intended purpose.
- **DO NOT** point the laser towards your eyes
- **DO NOT** point the laser towards reflective surfaces as it could reflect towards your eyes
- Avoid electrical hazards! **DO NOT** point the laser, or conduct measurements on/near areas with gas. This can cause explosion.

INTENDED USE

The PS198 Infrared Probe Thermometer is intended for the Food Sector Industry; production, food service, spot checking and incoming goods. This thermometer is capable of measuring liquids, pastes, and semi-solid materials within the Food Service industry.
NOTE: This instrument should not be used in potentially explosive areas or for diagnostic measurements in the medical service.

CORRECT WASTE DISPOSAL

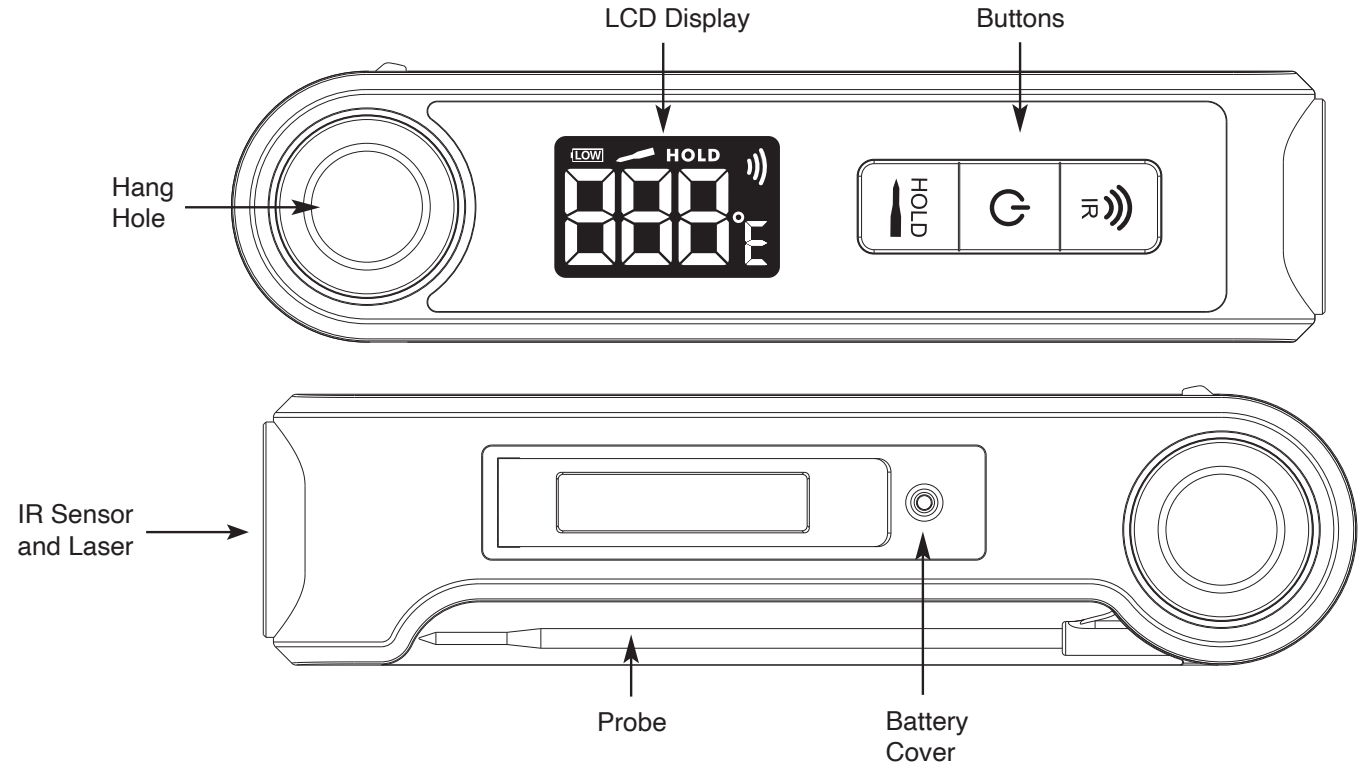
This product has been manufactured using high-grade materials and components, which can be recycled and reused.

Never dispose of empty batteries or rechargeable batteries in household waste. As a consumer, you are legally required to take them to your retail store or an appropriate collection site depending on national or local regulations in order to protect the environment. The symbols for the heavy metals contained are: Cd=cadmium, Hg=mercury; Pb=lead

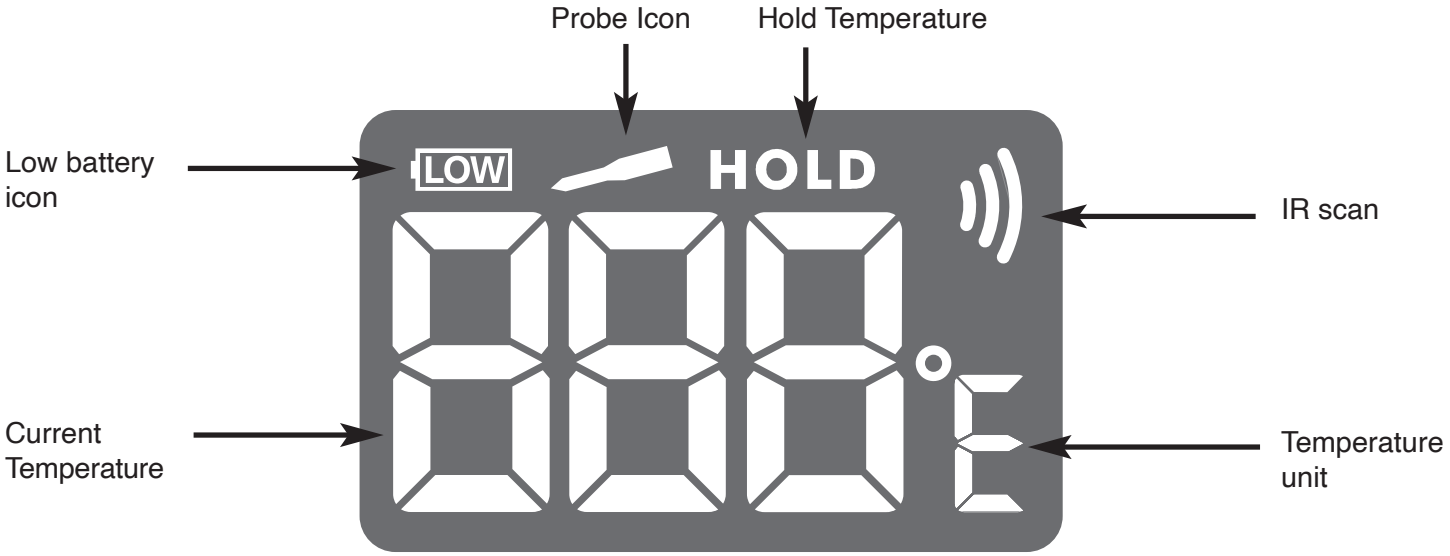
Please **DO NOT** dispose of this instrument in household waste. The user is obligated to take end-of-life devices to a designated collection point for the disposal of electrical and electronic equipment, in order to ensure environmentally compatible disposal.

This instrument is labelled in accordance with the EU Waste Electrical and Electronic Equipment. Directive (WEEE).

DESCRIPTION OF PARTS



LCD DISPLAY



FEATURES

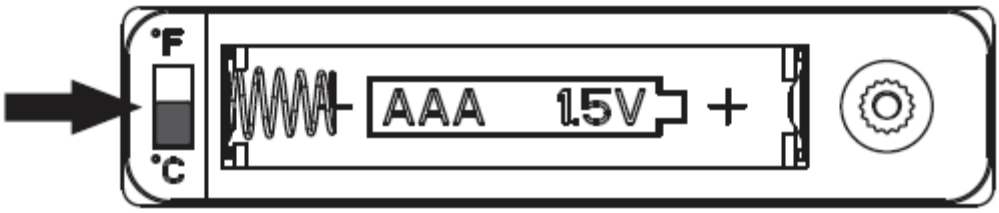
- Large 180° rotating display with reverse backlight
- Comes with a protective case
- Automatic power off
- Automatic temperature HOLD button
- °C/°F switchable
- 1-2 second response time
- Built in laser pointer
- Low battery indicator

SPECIFICATIONS

Temperature Range:	**Probe:** -50°C - 300°C (-58°F - 572°F) **Infrared:** -30°C - 500°C (-22°F - 932°F)
Accuracy:	**Probe:** 0°C - 100°C (32°F - 212°F) ±1°C (2°F) -20°C - -1°C (-4°F - 30°F), 101°C - 150°C (214°F - 302°F) ±2°C (4°F) -26°C - 21°C (-15°F - 70°F), 151°C - 200°C (304°F - 392°F) ±4°C (8°F) 201°C - 250°C (394°F - 572°F) ±5% **Infrared:** -30°C - -0.1°C (-22°F - 32.18°F) ±5°C (10°F) 0°C - 100°C (32°F - 212°F) ±2°C (4°F) 101°C - 300°C (213.8°F - 572°F) ±3% 301°C - 500°C (573.8°F - 932°F) ±4%
Distance Spot Ratio:	12:1
Resolution:	0.1
Waterproof Rating:	IP65
Batteries (Included):	1 x AAA

OPERATION

- Unscrew the battery cover on the back of the thermometer and insert 1x AAA battery, observing the correct polarity. Close the battery compartment and tighten the screw.



- Press the Power button to turn on the thermometer. The LCD will display the probe temperature reading and probe icon on the screen.
- Press the HOLD button to freeze the probe temperature reading on the screen. The HOLD icon will also be displayed.
- Press the IR button to turn on the laser and take a surface temperature reading. The IR icon will be displayed on the screen.

NOTE: If the temperature measured is less than 50°C (122°F), and no button is pressed within 2 minutes, the thermometer will automatically power off. To wake up the thermometer press any button.

ADDITIONAL INFORMATION

How It Works
Infrared thermometers measure the surface temperature of an object. The unit's optics sense emits, reflects, and transmits energy, which is collected and focused onto a detector. The unit's electronics translate the information into a temperature reading which displays on the unit. The laser is a guide and is used for aiming purposes only.

Field of View
Make sure that the target is larger than the unit's spot size. The smaller the target, the closer you should be to it. When accuracy is critical, make sure the target is at least twice as large as the spot size.

Distance & Spot Size
As the distance (D) from the object increases, the spot size (S) of the area measured by the unit becomes larger.

Locating a Hot Spot
To find a hot spot, aim the thermometer outside the area of interest, then scan across with an up and down motion until you locate a hot spot.

NOTES:
- Infrared technology is not recommended for use in measuring shiny or polished metal surfaces (stainless steel, aluminum, etc.).
- Infrared cannot measure through transparent surfaces. It will measure the surface temperature of the glass instead.
- Steam, dust, smoke, etc., can prevent accurate measurement by obstructing the unit's optics.

Measurement Considerations
Holding the thermometer by its handle, point the IR Sensor toward the object to be measured.
The thermometer automatically compensates for the temperature deviations from ambient temperatures. Keep in mind that it will take up to 30 minutes to adjust if wide ambient temperature is to be measured following high temperature measurements. Several minutes are required after the low (and before the high) temperature measurements are made. This is a result of the cooling process which must take place of the IR sensor.

MAINTENANCE

Clean the instrument with mild cleaning agents such as dish soap. **DO NOT** submerge instrument in water, but rather wipe down. **DO NOT** use aggressive cleaning agents or solvents. The probe and housing can also be cleaned using an alcohol based probe wipe or cloth. Avoid touching the IR lens with your finger.
Any damage to the probe or IR lens could potentially affect the reading.

WARRANTY

The Infrared Probe Thermometer has a 1 year warranty to be free of manufacturing defects in materials and workmanship under normal applications of the original owner. If this product becomes inoperable due to defect, return the product with all component pieces and proof of purchase to the address listed below. This warranty does not cover any shipping/transport costs. This warranty does not apply if the product is subject to misuse, neglect, rough handling or damage.

Ship the unit prepaid and insured (at owner's option) to:
Thermor Ltd.
Attn: Returns Department
16975 Leslie Street
Newmarket, ON L3Y 9A1
www.biosmedical.com
Email: support@biosmedical.com



MANUFACTURED BY/FABRIQUÉ PAR :
THERMOR LTD.
16975 LESLIE STREET
NEWMARKET, ON L3Y 9A1
MADE IN CHINA/FABRIQUÉ EN CHINE
WWW.BIOSPROFESSIONAL.COM
100% Canadian Owned & Operated
Propriétaire-exploitant canadien à 100 %