GUARANTEE - This instrument carries a two-year warranty against defects in either components or workmanship. During this period, products that prove to be defective will, at the discretion of ThermoWorks, be either repaired or replaced without charge. This warranty does not apply to probes, where a six-month period is offered. The product warranty does not cover damage caused by fair wear and tear, abnormal storage conditions, incorrect use, accidental misuse, abuse, neglect, misapplication, or modification. Full details of liability are available within ThermoWorks' Terms & Conditions of Sale at *www.thermoworks.com/product-warranty*. In line with our policy of continuous development, we reserve the right to amend our product specification without prior notice.

SPECIFICATIONS

Range	–58 to 662°F (–49.9 to 350°C)
Accuracy *	±1.8°F (±1.0°C) from 32 to 212°F (0 to 100°C), otherwise ±3.6°F (±2.0°C) or 2% of reading, whichever is greater
Response	1 second
Distance/Target	5:1 target ratio (5-inch distance measures a 1-inch diameter target area)
Emissivity	0.95 default - adjustable 0.1 to 1
Resolution	0.1° / 1°
Units	°C/°F switchable (user reconfigurable)
Wireless	Bluetooth
Water Resistance	IP54
Operating Range	–4 to 122°F (–20 to 50°C)
Display	1 H x 1.5 W inches (24 H x 38 W mm) LCD, rotates 360°, backlight
Dimensions	5 H x 2.2 W x 1 D inches (128 H x 56 W x 25 D mm)
Weight	4.6 oz. (130 grams)
Certificate	Includes NIST-traceable calibration certificate

*IR accuracy can be affected by the emissivity setting, target spot size, and rapid changes in ambient temperature. Accuracy specification based on ambient temperature of 77°F ±2°F (25°C ±1°C).

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iOS is a trademark or registered trademark of Cisco in the U.S. and other countries and is used under license.

For warranty, service, and technical assistance, please contact ThermoWorks' Technical Support at (801) 756-7705 or email at techsupport@thermoworks.com.

RayTemp Blue
## Infrared Thermometer

### With Bluetooth® LE Wireless Technology

Operating Instructions

INSTRUMENT OPERATION - Simply press the On/Off button to turn RayTemp Blue on. Then aim the RayTemp Blue at the target and press the MEASURE button to measure the surface temperature. When the button is released the reading is automatically held and 'HOLD' will be displayed.

AUTO-OFF - If the instrument is not connected to Bluetooth within 10 minutes, it will shut down. This function can be adjusted from devices settings in the app.
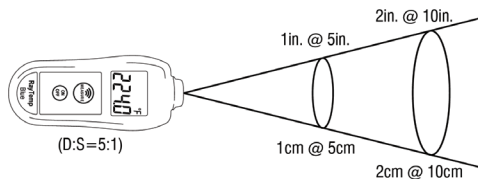
MEASUREMENT ZONE/TARGET DISTANCE - The measurement zone is proportional to the distance the RayTemp Blue is away from the target. The RayTemp Blue is equipped with a 5:1 lens. If the target is 5 inches away, the measurement zone will be 1 inch across.

CONNECTION - Use an iOS or Android device with the app installed to make connections to the instrument. When connected, the Bluetooth symbol ✳ will show in the display.

Please note: When not connected, the instrument can still be used; however, measurements are only taken when the measurement button is pressed. No readings are stored in the instrument - they are just indicated on the instrument display, until the unit is switched off.

EMISSIVITY - The RayTemp Blue is supplied with variable emissivity from 0.10 to 1.00 (default 0.95). To adjust emissivity you must be connected to the app and adjust it in the device settings. For information relating to the emissivity of specific materials, please visit our website *thermoworks.com/emissivity_table*.
Please note: Non-contact infrared thermometers are not recommended for use in measuring the temperature of shiny or polished metals.

°C/°F - To change the thermometer between °C and °F, you must be connected to the app and adjust it in the device settings. '°C' or '°F' will be displayed in the top right corner of the LCD when in normal operation.

LCD ERROR MESSAGES - If the ambient temperature falls below –4°F (-20°C) or exceeds 122°F (50°C), then either 'Ambient Lo' or 'Ambient Hi' will be displayed. This will continue until the ambient temperature has returned to the operating temperature. The thermometer should be allowed plenty of time (minimum 30 minutes) to stabilize to the working/room temperature. 'Hi' or 'Lo' will be displayed when the temperature being measured is outside of the measurement range.

BATTERY REPLACEMENT - Replace the batteries when the battery icon '▭' is displayed. This meter will continue to measure accurately but, after further usage, the meter will display 'flat bat' and shutdown. Unscrew the battery cover screw on the back of the meter and replace the three AAA batteries, ensuring the polarities are correct.

SETTINGS - Adjustable settings via the app include: °F or °C, measurement interval, auto-off interval, emissivity, sensor name, and high/low alarm levels. All settings are stored in the instrument and are downloaded to the app on connection.

STORAGE & CLEANING - The sensor lens is the most delicate part of the thermometer and should be kept clean at all times. Care should be taken when cleaning the lens, using only a cotton swab dipped in rubbing alcohol. Allow the lens to fully dry before using it. The thermometer should be stored between –4 to 140°F (–20 to 60°C).

WARNING
IPA and other solvents may cause damage to the case and screen of this instrument.