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Parkside IAN-100380545001

Parkside Digital Infrared Laser Thermometer User Manual

Model: IAN-100380545001 (Type PTIA 1)

1. Introduction



Image: Side view of the Parkside Digital Infrared Laser Thermometer, showing its ergonomic design and display.

This manual provides essential information for the safe and effective use of your Parkside Digital Infrared Laser Thermometer. This device is designed for rapid, non-contact measurement of surface temperatures. It is particularly useful for identifying heat bridges and areas prone to mold risk. Please read these instructions carefully before first use and keep them for future reference.
Key features include a precise infrared measurement signal, an 8-point laser for accurate targeting, and a color display that indicates temperature deviation from a reference value.

2. Safety Information

- **Laser Safety:** This device uses a Class 2 laser. Do not stare directly into the laser beam or direct it at other people's eyes. Avoid prolonged exposure.
- **Intended Use:** This thermometer is designed for measuring surface temperatures only. It is **not** suitable for measuring human or animal body temperature.

- **Temperature Limits:** Do not expose the device to extreme temperatures outside its operating range (-50 to +380 °C).
- **Moisture:** Keep the device dry. Do not use it in wet or humid conditions.
- **Cleaning:** Use a soft, dry cloth for cleaning. Do not use abrasive cleaners or solvents.
- **Battery Handling:** Ensure correct battery polarity. Remove batteries if the device will not be used for an extended period. Dispose of batteries responsibly.

3. Setup

3.1 Battery Installation

The Parkside Digital Infrared Laser Thermometer requires a battery for operation, which is included with the device.

1. Locate the battery compartment cover, typically on the handle.
2. Open the battery compartment.
3. Insert the battery, ensuring the correct polarity (+ and - terminals).
4. Close the battery compartment cover securely.

3.2 Initial Power-On

After battery installation, the device is ready for use. Press the measurement trigger to power on the device and initiate a measurement.

4. Operating Instructions

4.1 Taking a Measurement

1. Point the thermometer at the desired surface. The 8-point laser will help visualize the measurement area.
2. Press and hold the measurement trigger. The device will display the temperature reading almost instantly.
3. Release the trigger to hold the last measured value on the display.



Image: A man using the Parkside Digital Infrared Laser Thermometer to measure the temperature of a wall near a window, demonstrating its use for detecting heat bridges.



Image: The thermometer being used to measure the surface temperature of a stovetop, highlighting its application in kitchen environments.



Image: The thermometer measuring the temperature of a car engine, illustrating its utility for automotive diagnostics.

4.2 Understanding the Color Display

The device features a color display that provides visual feedback based on a set reference value:

- **Blue Display:** Indicates that the measured temperature is colder than the set reference value.
- **Red Display:** Indicates that the measured temperature is warmer than the set reference value.
- **Green Display:** Indicates that the measured temperature is approximately equal to the set reference value.



Image: Three close-up views of the thermometer's display, illustrating the blue, red, and green color indicators for temperature comparison against a reference.

4.3 Changing Measurement Units (°C/°F)

The device allows switching between Celsius (°C) and Fahrenheit (°F) units. Refer to the device's buttons (often labeled "°C/°F" or similar) to adjust between these units.



Image: A detailed view of the thermometer's display and control buttons, including those for unit selection and reference settings.

4.4 Setting Reference Values

To utilize the color display feature effectively, you can set a reference temperature. The device typically has buttons (e.g., "SET" or arrow keys) to adjust this reference value. The selectable reference levels are ±0.5 °C, ±3 °C, and ±5.5 °C.

4.5 Automatic Shutdown

To conserve battery life, the thermometer features an automatic shutdown function, typically activating after approximately 60 seconds of inactivity.

5. Maintenance

5.1 Cleaning the Device

- Ensure the device is turned off before cleaning.
- Wipe the exterior of the thermometer with a soft, slightly damp cloth.
- Do not use harsh chemicals, abrasive cleaners, or solvents, as these can damage the housing or display.
- Pay special attention to keeping the infrared lens clean for accurate readings.

5.2 Battery Replacement

When the battery change indicator appears on the display, replace the battery promptly to ensure continued accurate operation. Follow the steps outlined in Section 3.1 for battery installation.

6. Troubleshooting

Problem	Possible Cause	Solution
Device does not turn on.	Dead or incorrectly installed battery.	Check battery polarity or replace the battery.
Inaccurate readings.	Dirty infrared lens. Measuring reflective, wet, or transparent surfaces. Measuring very small areas. Device not held steady.	Clean the lens carefully. Infrared thermometers are less accurate on these surfaces. Consider applying matte tape to reflective surfaces. Ensure the measurement area is larger than the laser spot. Hold the device steady during measurement.
Display shows "Lo" or "Hi".	Temperature is outside the measurement range.	Ensure the target temperature is within -50 °C to +380 °C.
Battery indicator is on.	Low battery level.	Replace the battery.

7. Specifications

Feature	Detail
Model Number	IAN-100380545001 (Type PTIA 1)
Measurement Range	-50 °C to +380 °C (-58 °F to +716 °F)
Deviation (> 0 °C / < 0 °C)	±1.5 °C / ±3 °C
Optics (Distance:Spot Ratio)	12:1
Selectable Reference Levels	±0.5 °C, ±3 °C, ±5.5 °C
Measurement Units	Celsius (°C) and Fahrenheit (°F)
Laser Class	Class 2
Display Type	Digital, Color Backlit
Automatic Shutdown	Approx. 60 seconds

Feature	Detail
Housing Material	Acrylonitrile Butadiene Styrene (ABS)
Display Window Material	Polymethyl Methacrylate (PMMA)
Handle Material	Thermoplastic Rubber (TPR)
Dimensions (L x H x D)	174 x 94 x 42 mm
Weight	174 g (device only) / 361 g (packaged)
Power Source	Battery operated
Included Components	Battery

8. Warranty and Support

8.1 Warranty Information

This Parkside product is covered by a manufacturer's warranty. Please refer to the warranty card included with your purchase or contact your retailer for specific warranty terms and conditions. Keep your proof of purchase for any warranty claims.

8.2 Customer Support

For technical assistance, troubleshooting, or spare parts, please contact Parkside customer support. Contact details can typically be found on the product packaging or the official Parkside website. When contacting support, please have your model number (IAN-100380545001) and purchase date available.

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