Congratulations on your selection of the IR9-PEN thermometer. The IR9-PEN thermometer is a non-contact infrared thermometer with circular laser.

**Operation:**
1. Press 'Meas.' Button, directly to power IR9-PEN on and start measurement.
2. Release finger to hold the last reading and see the last Maximum and Minimum readings every 2 seconds in turn.

<table>
<thead>
<tr>
<th>Hold</th>
<th>Maximum</th>
<th>Minimum</th>
</tr>
</thead>
<tbody>
<tr>
<td>26.7</td>
<td>32.9</td>
<td>23.7</td>
</tr>
</tbody>
</table>

°C / °F Measurement Unit Conversion
Take off battery cover and use a pen to shift the scale switch.

**Battery:**
The IR9-PEN incorporates visual low battery indication as follows:

- **Battery OK**: measurements are possible.
- **Battery Low**: battery needs to be replaced, measurements are possible.
- **Battery is depleted**: measurements are not possible.

**Battery Replacement:**
When the 'Low Battery' icon indicates the battery is low, the battery should be replaced immediately with a AA battery.
- Slide the battery cover off.
- Remove the old battery and replace with a new AA battery.

**Specification:**
- **Range**: -33 to +500°C (-27 to +932°F)
- **Resolution**: 199.9 to -9.9°C / °F: 0.1°C / °F
- **Above 200°C or below -10°C / -14°F**: 1°C / °F
- **Response Time**: 1 second
- **Infrared Accuracy**: ±2.0% of reading or ±2.0°C which one is greater
- **Field of View (D:S)**: 9:1 optics ratio
- **Emissivity**: 0.95 fixed
- **Battery Life**: 30 hours continuous use
- **Operation temp. and humidity**: 0 to 50°C; <90RH%
- **Storage temp. and humidity**: 10 to 40°C; <65 RH%
- **Battery**: AA
- **Display**: LCD
- **Dimensions**: 150(L) x 25(W) x 27(H) mm
- **Weight**: 74 grams including battery

**Guarantee:**
The IR9-PEN is guaranteed for a period of one year from the date of purchase against mechanical and electrical manufacturing defects. There are no user serviceable parts inside the instrument. Any attempt to repair unit by an unauthorized person voids the warranty.

**Warning:**
- The Temp function is not intended for taking measurements that require a Life & Death decision or Safety related applications.
- The temperature reading of IR9-PEN indicates only the surface temperature, and not the actual temperature of an object.
- Keep the unit dry and away from any liquids and direct sunlight or a very hot object. (to prevent heat damage to unit, do not leave in the sun or next to very hot objects).
- Always make sure the probe lens is clean without any damage.
- Dispose of used battery promptly and keep away from children.

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**IR9-PEN Infrared Thermometer Operating Instructions**

*Made in China*