Fluke 566 and 568
Multipurpose Thermometers

Combined Infrared and Contact thermometers with logging capability

Fluke. Keeping your world up and running.

Fluke Corporation
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Web: www.fluke.com

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Fluke 566 and 568
Multipurpose Thermometers

The two-in-one infrared and contact thermometer with an innovative graphical display

With a straight-forward, menu-driven user interface and graphical display, the Fluke 566 and 568 multipurpose thermometers make even complex temperature measurements easy. Quickly navigate and adjust emissivity, start data logging, or turn on and off alarms, with just a few pushes of a button. For added convenience, both rugged handheld thermometers combine contact and non-contact temperature measurement capability, providing a total temperature measurement solution for any service and maintenance program.

- Easily access advanced features with the soft-key buttons and graphical display
- Measure smaller targets from farther away using the IR thermometer
- Adjustable emissivity and built-in table of common materials for higher IR accuracy
- Quickly identify problems with the MIN, MAX, AVG, and DIF functions
- 2-color flashing alarm alerts you visually when measurements exceed limits
- Includes Type K thermocouple bead probe
- Compatible with all standard mini-connector K-type thermocouples
- Data logging with a date/time stamp
- Soft rubber boot for increased ruggedness
- User interface available in 6 languages

Product specifications
(Check the Fluke web for detailed specifications)

<table>
<thead>
<tr>
<th></th>
<th>566</th>
<th>568</th>
</tr>
</thead>
<tbody>
<tr>
<td>Infrared range</td>
<td>-40 °C to 650 °C</td>
<td>-40 °C to 800 °C</td>
</tr>
<tr>
<td>Infrared accuracy</td>
<td>± 0.5 °C; ± 0.1 °C if ≥ 1 °C, whichever is greater</td>
<td>± 0.5 °C; ± 0.1 °C if ≥ 1 °C, whichever is greater</td>
</tr>
<tr>
<td>Display resolution</td>
<td>0.1 °C</td>
<td>0.1 °C</td>
</tr>
<tr>
<td>Infrared spectral response</td>
<td>8 µm to 14 µm</td>
<td>8 µm to 14 µm</td>
</tr>
<tr>
<td>Infrared response time</td>
<td>&lt; 500 ms</td>
<td>&lt; 500 ms</td>
</tr>
<tr>
<td>Input temperature range</td>
<td>-270 °C to 1372 °C</td>
<td>-270 °C to 1372 °C</td>
</tr>
<tr>
<td>Input accuracy</td>
<td>-270 °C to -40 °C: ± (1 °C + 0.2 °/1 °C); -40 °C to 1372 °C: ± 1% or 1 °C, whichever is greater</td>
<td>-270 °C to -40 °C: ± (1 °C + 0.2 °/1 °C); -40 °C to 1372 °C: ± 1% or 1 °C, whichever is greater</td>
</tr>
<tr>
<td>D:S (Distance to measurement spot size)</td>
<td>19:1</td>
<td>50:1</td>
</tr>
<tr>
<td>Laser sighting</td>
<td>Single-point laser &lt; 1 mw output Class II B operation, 630 nm to 670 nm</td>
<td>Single-point laser &lt; 1 mw output Class II B operation, 630 nm to 670 nm</td>
</tr>
<tr>
<td>Minimum target size</td>
<td>19 mm</td>
<td>90 x 90 mm</td>
</tr>
<tr>
<td>Emissivity adjustment</td>
<td>By built-in table of common materials or digitally adjustable from 0.10 to 1.00 by 0.01</td>
<td>0.10 to 1.00 by 0.01</td>
</tr>
<tr>
<td>Data logging with Date/Time stamp</td>
<td>20 points</td>
<td>99 points</td>
</tr>
<tr>
<td>PC interface and cable</td>
<td>None</td>
<td>USB 2.0 with FlukeView® Forms software</td>
</tr>
<tr>
<td>Hi/Low alarms</td>
<td>Audible and two-color visual</td>
<td>Audible and two-color visual</td>
</tr>
<tr>
<td>Min/Max/Avg/Dif</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Display</td>
<td>Dot matrix 98 x 98 pixels with function menus</td>
<td>Dot matrix 98 x 98 pixels with function menus</td>
</tr>
<tr>
<td>Backlight</td>
<td>Two levels, normal and extra bright for darker environments</td>
<td>Two levels, normal and extra bright for darker environments</td>
</tr>
<tr>
<td>Trigger Lock</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Switchable between Celsius and Fahrenheit</td>
<td>Yes</td>
<td>Yes</td>
</tr>
</tbody>
</table>

Power: 2 AA/LR6 Batteries (566); 2 AA/LR6 Batteries and USB for use with a PC (568)

Battery life: Used continuously; laser and backlight on: 12 hours; laser and backlight off: 100 hours

Weight: 0.965 kg (566); 1.026 kg (568)

Size (HxLxW): 25.4 cm x 19.1 cm x 6.9 cm

Operating temperature: 0 °C to 50 °C

Storage temperature: -20 °C to 60 °C

Two years warranty

Included accessories
- FlukeView® Forms software (568 only), USB cable (568 only), K-type thermocouple bead probe, 2 AA batteries, hard carrying case, quick start guide, and users manual.

Ordering information
- Fluke 566 Infrared thermometer
- Fluke 568 Infrared thermometer

Recommended Accessories
- 80PK-8 Pocket Infrared Thermometer
- 80PK-9 General Purpose Probe
- 80PK-10 SureGrip Thermocouple Probe
- 80PK-11 SureGrip General Purpose Probe
- 80PK-12 SureGrip Piercing Probe
- 80PK-13 SureGrip Pipe Clamp Probe
- 80PK-14 SureGrip General Purpose Probe
- 80PK-15 SureGrip General Purpose Probe
- 80PK-16 SureGrip General Purpose Probe
- 80PK-17 SureGrip General Purpose Probe
- 80PK-18 SureGrip General Purpose Probe
- 80PK-19 SureGrip General Purpose Probe
- 80PK-20 SureGrip General Purpose Probe
- 80PK-21 SureGrip General Purpose Probe
- 80PK-22 SureGrip General Purpose Probe
- 80PK-23 SureGrip General Purpose Probe
- 80PK-24 SureGrip General Purpose Probe
- 80PK-25 SureGrip General Purpose Probe
- 80PK-26 SureGrip General Purpose Probe
- 80PK-27 SureGrip General Purpose Probe
- 80PK-28 SureGrip General Purpose Probe
- 80PK-29 SureGrip General Purpose Probe
- 80PK-30 SureGrip General Purpose Probe
- 80PK-31 SureGrip General Purpose Probe
- 80PK-32 SureGrip General Purpose Probe
- 80PK-33 SureGrip General Purpose Probe
- 80PK-34 SureGrip General Purpose Probe
- 80PK-35 SureGrip General Purpose Probe
- 80PK-36 SureGrip General Purpose Probe
- 80PK-37 SureGrip General Purpose Probe
- 80PK-38 SureGrip General Purpose Probe
- 80PK-39 SureGrip General Purpose Probe
- 80PK-40 SureGrip General Purpose Probe
- 80PK-41 SureGrip General Purpose Probe
- 80PK-42 SureGrip General Purpose Probe
- 80PK-43 SureGrip General Purpose Probe
- 80PK-44 SureGrip General Purpose Probe
- 80PK-45 SureGrip General Purpose Probe
- 80PK-46 SureGrip General Purpose Probe
- 80PK-47 SureGrip General Purpose Probe
- 80PK-48 SureGrip General Purpose Probe
- 80PK-49 SureGrip General Purpose Probe
- 80PK-50 SureGrip General PurposeProbe