

## Features



### Added functionality available only on the 568:

- Easily trend and analyze data with included FlukeView® Forms software
- Quickly download stored data with USB connection
- See your data right away without leaving the site, using the USB and your laptop
- Extend your battery life by powering the digital thermometer from your laptop via the USB

### Features and benefits of the 568 and 566:

- Measure -40 °C to 800 °C /-40 °F to 1472 °F (568) or -40 °C to 650 °C/-40 °F to 1202 °F (566)
- Easily access advanced features with the soft-key buttons and dot-matrix display
- Measure smaller objects from further away, with a distance-to-spot ratio of 50:1 (568) or 30:1 (566)
- Compatibility with all standard miniconnector Type-K thermocouples allow you to preserve your thermocouple investments
- Confidently measure a wide variety of surfaces, with the adjustable emissivity feature, including a built-in material table
- Capture multiple points of data (up to 99 with the 568, and 20 with the 566), for downloading and recalling later
- Easily adapt to lighting conditions with 2 levels of backlight
- Audible and visual alarms instantly alert you to measurements outside of your set limits
- Quickly identify problems with the MIN, MAX, AVG, and DIF functions
- Make contact thermometer measurements right away with the included Type-K thermocouple bead probe
- Confidently troubleshoot equipment with 1 % measurement accuracy
- Versatile interface with 6 languages from which to choose



## Specifications

Product specifications	
<b>Infrared temperature range</b>	<b>566:</b> -40 °C to 650 °C (-40 °F to 1202 °F) <b>568:</b> -40 °C to 800 °C (-40 °F to 1472 °F)
<b>Infrared accuracy</b>	< 0 °C (32 °F): ± (1.0 °C (± 2.0 °F) + 0.1°/1 °C or °F); > 0 °C (32 °F): ± 1 % or ± 1.0 °C (± 2.0 °F), whichever is greater
<b>Display resolution</b>	0.1 °C / 0.1 °F
<b>Infrared spectral response</b>	8 μm to 14 μm
<b>Infrared response time</b>	< 500 msec
<b>Thermocouple Type-K input temperature range</b>	-270 °C to 1372 °C (-454 °F to 2501 °F)
<b>Thermocouple Type-K input accuracy</b>	-270°C to -40°C: ± (1 °C + 0.2 °/1 °C) (-454 °F to -40 °F: ± (2 °F + 0.2 °/1 °F)) -40°C to 1372°C: ± 1 % or 1 °C (-40 °F to 2501 °F: ± 1 % or 2 °F), whichever is greater
<b>D:S (distance to measurement spot size)</b>	<b>566:</b> 30:1 <b>568:</b> 50:1
<b>Laser sighting</b>	Single-point laser < 1 mw output Class 2 (II) operation, 630 nm to 670 nm
<b>Minimum spot size</b>	19 mm (0.75 in)
<b>Emissivity adjustment</b>	By built-in table of common materials or digitally adjustable from 0.10 to 1.00 by 0.01
<b>Data storage with Date/Time stamp</b>	<b>566:</b> 20 points <b>568:</b> 99 points
<b>PC Interface and cable</b>	<b>566:</b> None <b>568:</b> USB 2.0 with FlukeView® Forms software

<b>Hi/Low alarms</b>	Audible and two-color visual
<b>Min/Max/Avg/Dif</b>	Yes
<b>Display</b>	Dot matrix 98 x 96 pixels with function menus
<b>Backlight</b>	Two levels, normal and extra bright for darker environments
<b>Trigger lock</b>	Yes
<b>Switchable Celsius and Fahrenheit</b>	Yes
<b>Power</b>	<b>566:</b> 2 AA/LR6 Batteries <b>568:</b> 2 AA/LR6 Batteries and USB when used with a PC
<b>Battery life</b>	<b>If used continuously:</b> laser and backlight on, 12 hours; laser and backlight off, 100 hours
<b>Operating temperature</b>	0 °C to 50 °C (32 °F to 122 °F)
<b>Storage temperature</b>	-20 °C to 60 °C (-40 °F to 140 °F)
<b>Bead thermocouple Type-K range</b>	-40 °C to 260 °C (-40 °F to 500 °F)
<b>Bead thermocouple Type-K accuracy</b>	± 1.1 °C (2.0 °F) from 0 °C to 260 °C (32 °F to 500 °F), typically within 1.1 °C (2.0 °F) from -40 °C to 0 °C (-40 °F to 32 °F)

<b>Fluke 566</b>	<p><b>Infrared and Contact Thermometer</b> Fluke 566 includes:</p> <ul style="list-style-type: none"> <li>• Thermocouple K bead probe</li> <li>• Durable hard case</li> <li>• 2 AA batteries</li> <li>• Getting Started guide in 6 languages</li> <li>• User's Manual on CD in 6 languages (English, Spanish, French, German, Portuguese, and Simplified Chinese)</li> <li>• 2-year warranty</li> </ul>
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