FLUKE ®

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

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

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

Fluke 566	**Infrared and Contact Thermometer** Fluke 566 includes: • Thermocouple K bead probe • Durable hard case • 2 AA batteries • Getting Started guide in 6 languages • User's Manual on CD in 6 languages (English, Spanish, French, German, Portuguese, and Simplified Chinese) • 2-year warranty
Fluke 568	**Infrared and Contact Thermometer** Fluke 568 includes: • Thermocouple K bead probe • Durable hard case • 2 AA batteries • Getting Started guide in 6 languages • USB cable • FlukeView® Forms software on CD • User's Manual on CD in 6 languages (English, Spanish, French, German, Portuguese, and Simplified Chinese) • 2-year warranty