

566, 568 and 568Ex Multipurpose Thermometers

FLUKE®



Fluke 566

Fluke 568

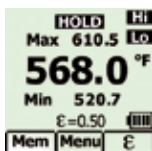
Fluke 568 Ex



Choose your language



Select the measurement surface



See complete measurement details in seconds

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

The Fluke 568 Ex Intrinsically Safe Infrared Thermometer is the one product you can use in Class I Div 1 and Div 2 or Zone 1 and 2 hazardous environments anywhere in the world.

Specifications

(Check the Fluke web for detailed specifications)

	566	568/568 Ex
Infrared temperature range	-40 °C to 650 °C	-40 °C to 800 °C
Infrared accuracy	$< 0\text{ °C}: \pm (1.0\text{ °C} + 0.1\%/1\text{ °C})$ $> 0\text{ °C}: \pm 1\% \text{ or } \pm 1.0\text{ °C, whichever is greater}$	
Display resolution	0.1 °C	
Infrared spectral response	8 μm to 14 μm	
Infrared response time	< 500 msec	
Input temperature range	-270 °C to 1372 °C	
Input accuracy	$-270\text{ °C to } -40\text{ °C}: \pm (1\text{ °C} + 0.2\%/1\text{ °C})$ $-40\text{ °C to } 1372\text{ °C}: \pm 1\% \text{ or } 1\text{ °C, whichever is greater}$	
D:S (Distance to measurement spot size)	30:1	50:1
Laser sighting	Single-point laser < 1 mw output Class 2 (II) operation, 630 nm to 670 nm	
Minimum spot size	19 mm	
Emissivity adjustment	By built-in table of common materials or digitally adjustable from 0.10 to 1.00 by 0.01	
Data logging with Date/Time stamp	20 points	99 points
PC interface and cable	None	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 between Celsius and Fahrenheit	Yes	

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 (568 Ex 4 hours); laser and backlight off: 100 hours
Weight: 0.965 kg (566); 1.026 kg (568)

Size (HxLxW): 254 x 191 x 69 mm
Operating temperature: 0 °C to 50 °C
Storage temperature: -20 °C to 60 °C
 Safety rating Zone 1 and 2 IECEx EPS 13.0006X Ex ia IIC T4 Gb 568 Ex
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
 Fluke 568 Ex Intrinsically safe infrared thermometer

Recommended Accessories



H6 See page 153
 80PK-8 See page 150
 80PK-9 See page 150
 80PK-11 See page 150
 80PK-25 See page 150
 80PK-26 See page 150