

## TECHNICAL DATA

# Fluke 568 Ex Intrinsically Safe Infrared Thermometer





## Key features

- Intrinsically safe infrared and contact thermometer
- Meets intrinsically safe certifications in Class I Div. 1 and Div. 2 or Zone 1 and 2 hazardous environments
- Measures temperatures from -40°C to 800°C (-40°F to 1472°F)
- Comes with a conductive case to safely carry the IR thermometer into hazardous areas
- Offers a distance-to-spot ratio of 50:1

## Product overview: Fluke 568 Ex Intrinsically Safe Infrared Thermometer

### Use the Fluke 568 Ex for intrinsically safe temperature measurements anywhere in the world

The Fluke 568 Ex Intrinsically Safe Infrared Thermometer is certified by major rating bodies for use in Class I Div. 1 and Div. 2 or Zone 1 and 2 hazardous environments anywhere in the world. Whether you work in petroleum, chemical, oil and gas, or pharmaceutical environments, the 568 Ex allows you to carry the most trusted name in test tools into most Ex-rated areas around the globe. The simple, three-button on-screen menu interface is quick to use and makes even complex measurements easy. It takes just a few pushes of a button to adjust emissivity, record data, or turn on and off alarms. The 50:1 distance-to-spot ratio allows you to measure smaller objects from further away. And it also is compatible with K-type probes for contact measurements. Either way, you can count on the rugged, ergonomic design to stand up to tough conditions.

### Other useful features:

- Instantly alerts you to measurements outside of set limits with audible and visual alarms
- Provides with 1% measurement accuracy
- Comes with thermocouple K bead probe and two-year warranty -30-
- Features a rugged, easy-to-use, ergonomic design that stands up to tough industrial, electrical, and mechanical environments
- Works with connector K-type thermocouples
- Allows easy access to advanced features with soft-key buttons and graphical display
- Captures up to 99 points of data for quick downloading to a PC through the USB connection
- Powered by two AA batteries
- Allows you to confidently measure a wide variety of surfaces with adjustable emissivity and built-in materials table
- Easily adapts to lighting conditions with a two-level backlight

## Specifications: Fluke 568 Ex Intrinsically Safe Infrared Thermometer

Specifications	
Infrared temperature range	-40°C to 800°C (-40°F to 1472°F)
Infrared accuracy	< 0°C (32°F): $\pm(1.0^{\circ}\text{C} (\pm 2.0^{\circ}\text{F}) + 0.1^{\circ}/1^{\circ}\text{C or }^{\circ}\text{F})$ ; > 0°C (32°F): $\pm 1\%$ or $\pm 1.0^{\circ}\text{C} (\pm 2.0^{\circ}\text{F})$ , whichever is greater
Display resolution	0.1°C / 0.1°F
Infrared spectral response	8 $\mu\text{m}$ to 14 $\mu\text{m}$
Infrared response time	< 500 ms
Thermocouple type-k input temperature range	-270°C to 1372°C (-454°F to 2501°F)
Thermocouple type-k input accuracy	< -40°C: $\pm(1^{\circ}\text{C} + 0.2^{\circ}/1^{\circ}\text{C})$ □ -40°C: $\pm 1\%$ or $1^{\circ}\text{C}$ , whichever is greater < -40°F: $\pm(2^{\circ}\text{F} + 0.2^{\circ}/1^{\circ}\text{F})$ □ -40°F: $\pm 1\%$ or $2^{\circ}\text{F}$ , whichever is greater
D:S (distance to measurement spot size)	50:1
Laser sighting	Single-point laser
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	99 points
Hi/Low alarms	Audible and two-color visual
Min/Max/Avg/Dif	Yes
Display	Dot matrix with function menus
Backlight	Two levels, normal and extra bright for darker environments
Trigger lock	Yes
Switchable celsius and fahrenheit	Yes
Power	2 AAA/LR03 type-approved batteries (For a list of type-approved batteries, refer to Product Safety Instructions.)

Baery life	4 hours with laser and backlight on; 100 hours with laser and backlight off, at 100% duty cycle
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)

## Ordering information



### **Fluke 568Ex**

Fluke 568 Ex Intrinsically Safe Infrared Thermometer

Includes:

- K-type thermocouple bead probe
- Conductive IS hard carrying case
- User's manual

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