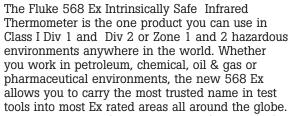


# The Fluke 568 Ex Intrinsically Safe Infrared Thermometer

Intrinsically safe temperature measurements. Anywhere in the world.





With a straight-forward user interface and softkey menus, the Fluke 568 Ex makes even complex measurements easy. Quickly navigate and adjust emissivity, save data or turn on and off alarms, with just a few pushes of a button. All in a single intrinsically safe tool certified by major rating bodies from around the world.

### **Product Highlights**

With a rugged, easy-to-use, ergonomic design, the Fluke 568 Ex can stand up to tough industrial, electrical, and mechanical environments.

- Meets intrinsically safe certifications in Class I Div 1 and Div 2 or Zone 1 and 2 hazardous environments from recognized safety agencies around the world
- Measure -40 °C to 800 °C (-40 °F to 1472 °F)
- Conductive Case for carrying the IR thermometer safely into hazardous area
- Easily access advanced features with the soft-key buttons and graphical display
- Measure small objects from further away, with a distance-to-spot ratio of 50:1
- Compatible with mini-connector K-type thermocouple (KTC) probe
- Confidently measure a wide variety of surfaces with the adjustable emissivity feature, including a built-in material table
- Capture up to 99 points of data
- $\bullet$  Confidently troubleshoot equipment with  $\pm$  1% measurement accuracy
- Versatile interface with five languages from which to choose
- Two-year warranty





## Specifications

	Fluke 568 Ex Infrared Thermometer
Infrared temperature range	-40 °C to 800 °C (-40 °F to 1472 °F)
Infrared accuracy	<pre>&lt; 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</pre>
Display resolution	0.1 °C/0.1 °F
Infrared spectral response	8 µm to 14 µm
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: ±(1 °C + 0.2 °/1 °C) ≥-40 °C: ±1 % or 1 °C, whichever is greater <-40 °F: ±(2 °F + 0.2 °/1 °F) ≥-40 °F: ±1 % or 2 °F, whichever is greater
D:S (distance to measure- ment 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/LRO3 type-approved Batteries (For a list of type-approved batteries, refer to Product Safety Instructions)
Battery 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 (-4 °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)

### **Safety Certifications**

Agency	Safety rating
ATEX/IECEX	Zone 1 and 2 IECEx EPS 13.0006X Ex ia IIC T4 Gb $0 \ ^{\circ}C \le Ta \le 50 \ ^{\circ}C$ EPS 13 ATEX 1.525 X II 2G Ex ia IIC T4 Gb
NEC-500/NEC-505	Class I Division 1 and 2 Class I, Division 1, Groups ABCD T4 Class I, Division 2, Groups ABCD T4 Class I, Zone 1, AEx ia IIC T4 Ex ia IIC T4 O $^{\circ}C \leq Ta \leq 50 ^{\circ}C$
GOST (pending)	Zone 1 and 2 POCC DE. $\Gamma$ b05.B Ex ia IIC T4 Gb X OT 0 °C $\square$ O +50 °C EPS 13 ATEX 1 525 X II 2G Ex ia IIC T4 Gb O °C $\leq$ Ta $\leq$ 50 °C
PCEC	Zone 1 and 2 PCEC Ex ia IIC T4 Gb CE13. EPS 13 ATEX 1 525 X II 2G Ex ia IIC T4 Gb $0 \ ^{\circ}C \le Ta \le 50 \ ^{\circ}C$
INMETRO	Zone 1 and 2 IEx 13.0122X Ex ia IIC T4 Gb EPS 13 ATEX 1 525 X II 2G Ex ia IIC T4 Gb O °C ≤ Ta ≤ 50 °C

Fluke. The Most Trusted Tools in the World.

## **Ordering information**

FLUKE-568 Ex Intrinsically Safe Infrared Thermometer

#### **Included equipment**

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

Contact: Industrial Process Measurement, Inc. 3910 Park Avenue, Unit 7 Edison, NJ 08820 732-632-6400 support@instrumentation2000.com http://www.instrumentation2000.com