FLUKE®

572-2 Infrared Thermometer

The best choice when things are really hot

Technical Data

The Fluke 572-2 Infrared Thermometer is the one product you can use in high-temperature industrial environments all around the world. Whether you work in power utility, metal refining and smelting, glass, cement or petrochemical environments, the new 572-2 allows you to carry the most trusted name in test tools anywhere you need accurate, high-temperature and high distance-to-spot measurements.

With a straight-forward user interface and soft-key menus, the Fluke 572-2 makes even complex measurements easy. Quickly navigate and adjust emissivity, start data logging, or turn on and off alarms, with just a few pushes of a button.

Product highlights

With a rugged, easy-to-use, ergonomic design, the Fluke 575-2 can stand up to tough industrial, electrical, and mechanical environments.

- Measure -30 °C to 900 °C (-22 °F to 1652 °F)
- 60:1 distance to spot ratio with dual laser sighting for fast, accurate targeting
- Multi-language interface (user select)
- Current Temperature plus MAX, MIN, DIF, AVG temperature displays
- Compatible with standard mini-connector K-type thermocouples, including ones you already own and have installed.
- Adjustable emissivity and predefined emissivity table
- Infrared and thermocouple temperature on backlit display
- Last reading Hold (20 seconds)
- High and low temperature alarm
- Data storage and review (99 data sets)
- Tripod mount
- 12 or 24 hour clock
- USB 2.0 computer interface cable
- FlukeView® Forms Documenting Software
- Two-year warranty

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572-2 specifications

Infrared measurements	
Infrared temperature range	-30 °C to 900 °C (-22 °F to 1652 °F)
IR accuracy (Calibration geometry with ambient temperature 23 °C ± 2 °C)	≥ 0 °C: ± 1°C or ± 1 % of the reading, whichever is greater ≥-10 °C to <0 °C: ± 2 °C <-10 °C: ± 3 °C ≥32 °F: ± 2 °F or ± 1 % of the reading, whichever is greater ≥14 °F to <32 °F: ± 4 °F <14 °F: ± 6 °F
IR Repeatability	± 0.5 % of reading or ± 0.5 °C (± 1 °F), whichever is greater
Display Resolution	0.1 °C / 0.1 °F
Distance:Spot	60:1 (calculated at 90 % energy)
Minimum spot size	19 mm
Laser sighting	Offset dual laser, output < 1 mW
Spectral Response	8 µm to 14 µm
Response Time (95 %)	<500 ms
Emissivity	Digitally adjustable from 0.10 to 1.00 by 0.01 or via built-in table of common materials
Measurement options	
Hi/Low alarms	Audible and two-color visual
Min/Max/Avg/Dif	Yes
Switchable celsius and fahrenheit	Yes
Backlight	Two levels, normal and extra bright for darker environments
Probe input	K-type thermocouple Simultaneous display of probe and IR temperature
Trigger lock	Yes
Data storage	99 points
Display	Dot matrix 98 x 96 pixels with function menus
Communication	USB 2.0
K-type thermocouple specifications	
K-type thermocouple input temperature range	-270 °C to 1372 °C (-454 °F to 2501 °F)
K-type thermocouple input accuracy (with ambient temperature 23 °C ± 2 °C)	< -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
K-type thermocouple resolution	0.1 °C/0.1 °F
K-type thermocouple repeatability	± 0.5 % of reading or ± 0.5 °C (± 1 °F), whichever is greater
Measurement range (K-type thermocouple bead probe)	-40 °C to 260 °C (-40 °F to 500 °F)
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)
Cable length	1 m (40 in) K-type thermocouple cable with standard miniature thermocouple connector and bead termination
General specifications	
Operating temperature	0 °C to 50 °C (32 °F to 122 °F)
Storage temperature	-20 °C to 60 °C (-4 °F to 140 °F)
Relative humidity	10 % to 90 % RH non-condensing up to 30 °C (86 °F)
Operating altitude	2000 meters above mean sea level
Weight	0.322 kg (0.7099 lb)
Power	2 AA Batteries
Battery life	8 hours with laser and backlight on; 100 hours with laser and backlight off, at 100 % duty cycle (thermometer continuously on)
Safety and compliance	IEC 60825-1 FDA Laser Class II EMC 61326-1 CE Compliance CMC 沪制01120009

Recommended temperature probes

Probe	Usage
80PK-1	The general purpose bead probe is for quick, accurate surface temperatures and air temperatures within ducts, vent temperatures.
80PK-8	Pipe clamp probes (2) are essential for tracking continuously changing temperature differentials on hydronic tubing and pipe loops, and good for quick, accurate refrigerant temperatures.
80PK-9	The insulation-piercing probe provides a sharp tip to pierce pipe insulation and flat probe tip for good surface thermal contact, air temperatures within ducts, and vent temperatures.
80PK-11	Flexible cuff thermocouple temperature probe is a convenient way to attach a thermocouple to a pipe while keeping hands free.
80PK-25	The piercing probe is the most versatile option. Good for checking air temperature in ducts, surface temperature under carpets/pads, liquids, thermometer wells, vent temperatures, and for penetrating pipe insulation.
80PK-26	The tapered probe is a good general-purpose gas and surface probe, with a good length and low mass tip casing for faster reaction to surface and air temperatures.

Ordering information

572-2 Infrared Thermometer

Includes

Infrared thermometer with contact thermometer capabilities, K-type thermocouple bead probe, USB 2.0 computer interface cable, FlukeView® Forms Documenting Software, hard carrying case, getting started guide (print) and user's manual (CD).

Fluke. *The Most Trusted Tools in the World.*

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