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 pre–defined 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

572-2 specifications

Infrared measurements	
Infrared temperature range	–30 ℃ to 900 ℃ (–22 ℉ to 1652 ℉)
IR accuracy (Calibration geometry with ambient temperature 23 ℃ ± 2 ℃)	≥ 0 ℃: ± 1℃ or ± 1 % of the reading, whichever is greater ≥–10 ℃ to <0 ℃: ± 2 ℃ <–10 ℃: ± 3 ℃ ≥32 ℉: ± 2 ℉ or ± 1 % of the reading, whichever is greater ≥14 ℉ to <32 ℉: ± 4 ℉ <14 ℉: ± 6 ℉
IR Repeatability	± 0.5 % of reading or ± 0.5 ℃ (± 1 ℉), whichever is greater
Display Resolution	0.1 ℃ / 0.1 ℉
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 ℃ to 1372 ℃ (–454 ℉ to 2501 ℉)
K-type thermocouple input accuracy (with ambient temperature 23 ℃ ± 2 ℃)	< –40 ℃: ± (1 ℃ + 0.2 °/1 ℃) ≥ –40 ℃: ± 1 % or 1 ℃, whichever is greater < –40 ℉: ± (2 ℉ + 0.2 °/1 ℉) ≥ –40 ℉: ± 1 % or 2 ℉, whichever is greater
K-type thermocouple resolution	0.1 ℃/0.1 ℉
K-type thermocouple repeatability	± 0.5 % of reading or ± 0.5 ℃ (± 1 ℉), whichever is greater
Measurement range (K-type thermocouple bead probe)	–40 ℃ to 260 ℃ (–40 ℉ to 500 ℉)
Accuracy	± 1.1 ℃ (± 2.0 ℉) from 0 ℃ to 260 ℃ (32 ℉ to 500 ℉). Typically within 1.1 ℃ (2.0 ℉) from –40 ℃ to 0 ℃ (–40 ℉ to 32 ℉)
Cable length	1 m (40 in) K-type thermocouple cable with standard miniature thermocouple connector and bead termination
General specifications	
Operating temperature	0 ℃ to 50 ℃ (32 ℉ to 122 ℉)
Storage temperature	–20 ℃ to 60 ℃ (–4 ℉ to 140 ℉)
Relative humidity	10 % to 90 % RH non-condensing up to 30 ℃ (86 ℉)
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).

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