

572-2 Infrared Thermometer

The best choice when things are really hot

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.



Technical Data

Product highlights

With a rugged, easy-to-use, ergonomic design, the Fluke 572-2 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 °C to 900 °C (-22 °F to 1652 °F) |
| IR accuracy (Calibration geometry with ambient temperature 23 °C ± 2 °C) | <p>≥ 0 °C: ± 1°C or ± 1 % of the reading, whichever is greater</p> <p>≥ -10 °C to <0 °C: ± 2 °C</p> <p>< -10 °C: ± 3 °C</p> <p>≥ 32 °F: ± 2 °F or ± 1 % of the reading, whichever is greater</p> <p>≥ 14 °F to <32 °F: ± 4 °F</p> <p>< 14 °F: ± 6 °F</p> |
| 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) | <p>< -40 °C: ± (1 °C + 0.2 °/1 °C)</p> <p>≥ -40 °C: ± 1 % or 1 °C, whichever is greater</p> <p>< -40 °F: ± (2 °F + 0.2 °/1 °F)</p> <p>≥ -40 °F: ± 1 % or 2 °F, whichever is greater</p> |
| 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.*

Modification of this document is not permitted without written permission from Fluke Corporation.

