

FLUKE®

The Fluke 66 and 68 Infrared Thermometers

Non-contact temperature measurement

Technical Data

The professional's diagnostic tool

The Fluke 66 and Fluke 68 non-contact thermometers are the ideal professional diagnostic tools for HVAC technicians performing room balance checks, electricians evaluating electrical connections and auto mechanics diagnosing catalytic converters. This handheld portable tool enables professionals to research heating and ventilation problems, monitor the status of electrical motors and electrical panels and diagnose car malfunctions with ease. They measure surface temperatures, helping to quickly locate potential blockages or malfunctioning systems reducing work time and improving performance.

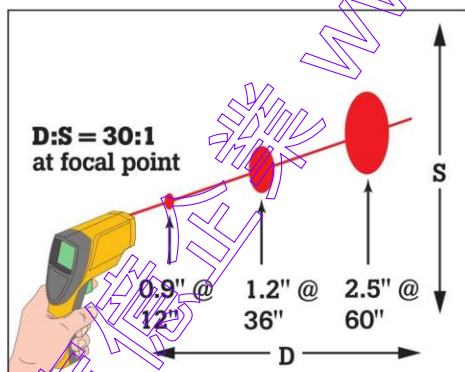
The 60 series thermometers feature:

- Laser guided sighting system for easy targeting with 1 % accuracy.
- 12-point data logging.
- Advanced optics to measure smaller targets at greater distances.
- Adjustable emissivity for more accurate temperature measurements.
- Selectable MAX, MIN, DIF and AVG functions that display values instantly with Hi/Lo Alarm.
- Temperatures up to 760 °C (1400 °F) (68).

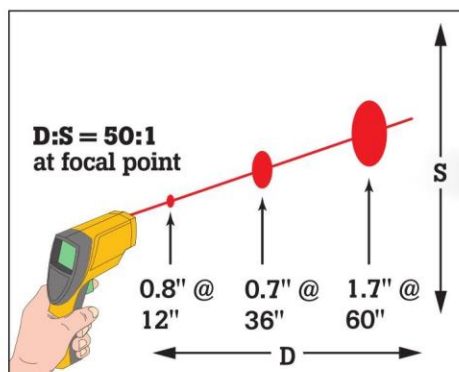
Optical resolution

The laser sighting system guides measurements to the right target and indicates the approximate center of the measurement area.

(D:S = distance to spot using 90 % encircled energy at focal point).



Use the Fluke 66 within 5 m (15 ft.) of the intended target. At greater distances, the measured area will be larger (approximately the distance divided by 30).



Use the Fluke 68 within 8 m (25 ft.) of the intended target. At greater distances, the measured area will be larger (approximately the distance divided by 50).



Specifications

| | Fluke 66 | Fluke 68 |
|--|--|-----------------------------------|
| Temperature range | -32 to 600 °C (-25 to 1100 °F) | -32 to 760 °C (-25 to 1400 °F) |
| Accuracy (assumes ambient operating temperature of 23 °C [73 °F]) | -32 to -26 °C (-25 to -15 °F): ±3 °C (±5 °F) -26 to -18 °C (-15 to 0 °F): ±2.5 °C (±4 °F) -18 to 23 °C (0 to 73 °F): ±2 °C (±3 °F) For targets above 23 °C (73 °F): ±1 % or reading or ±1 °C (±2 °F), whichever is greater | |
| Repeatability | ±0.5 % or ≤ ±1 °C (±2 °F), whichever is greater | |
| Response time | ≤ 0.5 second (95 % of reading) | |
| Spectral response | 8 to 14 μm | |
| Emissivity | Digitally adjustable emissivity (from 0.1 to 1.0 by 0.01) | |
| Ambient operating temp. | 0 to 50 °C (32 to 120 °F) | |
| Relative humidity | 10 to 90 % RH non-condensing, at <30 °C (86 °F) ambient | |
| Storage temperature | -20 to 60 °C (-13 to 158 °F) without battery | |
| Dimensions | 200 x 160 x 55 mm (8 x 6 x 2 in.) | |
| Weight | 320 g (11 oz.) | |
| Power | 9 V alkaline or NiCd battery | |
| Batter life (alkaline) | 20 hours with laser and backlight on 50 % 40 hours with laser and backlight off | |
| Laser sighting (Class II) | Offset single point laser point | |
| Typical distance to target | 5 m (15 ft.) | 8 m (25 ft.) |
| Distance to Spot (D:S) | 30:1 at focus point | 50:1 at focus point |
| MIN, MAX, AVG, DIF Temperature display | • | |
| Data logging | 12 points | |
| Probe jack | • | |
| Display hold (7 seconds) | • | |
| Hi/Low alarm | • | |
| LCD backlit | • | |
| Temperature display | °C or °F selectable | |
| Display resolution | 0.1 °C (0.1 °F) | |
| Hard carrying case | • | |
| Locking trigger | • | |
| Tripod mounting | 6.35 mm (.25 in.) 20 UNC threading | |
| Warranty | 2 years, conditional | |

Optional accessories:

- RTD temperature probe
- Non-contact thermometer holster



Ordering information

Fluke 66 Infrared Thermometer
Fluke 68 Infrared Thermometer

Included



Fluke. Keeping your world
up and running.

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