

60 Series Infrared Thermometers



Point, press and read temperature

The Fluke 60 Series non-contact thermometers are the ideal professional diagnostic tools for quick and accurate temperature measurements. These handheld tools are ideal for measuring surface temperatures of rotating, hard-to-reach, electricity live or dangerously hot targets like electrical motors and – panels, and heating and ventilation systems. The laser sighting system guides measurements to the right target and in less than a second, the large temperature display provides a readout of the surface temperature.

The 60 Series IR thermometers feature:

- Laser guided sighting system for easy targeting with 1% accuracy
- Up to 12 points datalogging with Min, max average functions
- Up to 50:1 optical resolution
- Choice between models with fixed or adjustable emissivity
- Backlit display for easy reading in the dark
- Temperatures up to 760°C

Features

	61	62	63	65	66	68
Form factor	Flat grip	Pistol grip	Pistol grip	Flat grip	Pistol grip	Pistol grip
Temperature range	-18 to 275°C	-30 to 500 °C	-32 to 535°C	-40 to 500°C	-32 to 600°C	-32 to 760°C
Optical resolution	8:1	10:1	12:1	8:1	30:1	50:1
Laser beam for accurate targeting	●	●	●	●	●	●
Backlit LCD display	●	●	●	●	●	●
Use selectable °C or °F	●	●	●	●	●	●
MIN/MAX/AVG/DIF readings		Max	MAX only	Min/Max/avg only	●	●
Datalogging				●	●	●
Hi/Lo Alarm					●	●
Adjustable emissivity					●	●

Specifications

	61	62	63	65	66	68
Range	-18 to 275°C	-30 to 500 °C	-32 to 535°C	-40 to 500°C	-32 to 600°C	-32 to 760°C
Response time	< 1 second	<500ms (95 % of reading)	≤ 0.5 second	<1 second	≤ 0.5 second	≤ 0.5 second
Resolution	0.2°C	0.2°C	0.2°C	0.1°C to 200°C, 1°C over 200°C	0.1°C	0.1°C
Repeatability (% of reading)	± 2% or ± 2°C*	±0.5% or ±1°C*	± 0.5% or ≤ ± 1°C*	± 1% or ± 1°C*	± 0.5% or ≤ ± 1°C*	± 0.5% or ≤ ± 1°C*
Accuracy: (assumes ambient operating temperature of 23°C)	For targets at: -18 to -1°C: ± 3°C -1 to 275°C: ± 2% of reading or ± 2°C*	For targets at: 10 °C to 30 °C: ± 1 °C ± 1.5% of reading or ± 1.5°C over the balance of the range	For targets at: -32 to -26°C: ± 3°C -26 to -18°C: ± 2.5°C -18 to 23°C: ± 2°C 23°C -510°C: ± 1% of reading or ± 1°C* For targets above 510°C: ± 1.5% of reading	For targets at: -40 to 0°C: ± 5°C 0 to 100°C: ± 2°C 100 to 500°C: ± 2% of reading	For targets at: -32 to -26°C: ± 3°C -26 to -18°C: ± 2.5°C -18 to 23°C: ± 2°C For targets above 23°C: ± 1% of reading or ± 1°C*	For targets at: -32 to -26°C: ± 3°C -26 to -18°C: ± 2.5°C -18 to 23°C: ± 2°C For targets above 23°C: ± 1% of reading or ± 1°C*
Typical distance to target	Up to 1m	Up to 1,5 m	Up to 2 m	Up to 1m	5 m	8 m
Emissivity	Fixed at 0.95	Fixed at 0.95	Fixed at 0.95	Fixed at 0.95	Digitally adjustable from 0.1 to 1.0 by 0.01	Digitally adjustable from 0.1 to 1.0 by 0.01

* whichever is greater

Battery Life:

Fluke 66 and 68:	20 hours with laser and backlight on 50%
Fluke 65:	15 hours with laser and backlight activated
Fluke 63:	10 hours with laser and backlight activated
Fluke 62:	12 hours with laser and backlight on
Fluke 61:	12 hours with laser and backlight activated

Size (HxWxD):

Fluke 63, 66 and 68:	200 mm x 160 mm x 55 mm
Fluke 65:	185 mm x 64 mm x 38 mm
Fluke 62:	152 mm x 101 mm x 38 mm
Fluke 61:	184 mm x 45 mm x 38 mm

Weight:

Fluke 63, 66 and 68:	0.320 kg
Fluke 65:	0.284 kg
Fluke 62:	0.200 kg
Fluke 61:	0.227 kg

Fluke 62: 2 years

Other models: one year warranty

Included Accessories

- Fluke 61: 9V Battery
- Fluke 62: 9V Battery, storage holster
- Fluke 63, 66 and 68: Hard carrying case, 9V batteries
- Fluke 65: C50 Soft carrying case and 2 AA batteries

Ordering information

- Fluke 61 Infrared Thermometer
- Fluke 62 Mini Infrared Thermometer
- Fluke 63 Infrared Thermometer
- Fluke 65 Infrared Thermometer
- Fluke 66 Infrared Thermometer
- Fluke 68 Infrared Thermometer

Recommended Accessories



80PR-60



H6