

Thermometers

Fluke 60 Series Handheld Infrared Thermometers

Specifications	
Backlit display for use in poorly lit areas	Fluke 61 Yes Fluke 65 Yes Fluke 62 Yes Fluke 63 Yes Fluke 66 Yes Fluke 68 Yes
Holds temperature readings	Fluke 61 Yes Fluke 65 Yes Fluke 62 Yes Fluke 63 Yes Fluke 66 Yes Fluke 68 Yes
Range	Fluke 61 -18 to 275 °C (-0 to 525 °F) Fluke 65 -40 to 500 °C (-40 to 932 °F) Fluke 62 -30 to 500 °C (-20° to 932 °F) Fluke 63 -32 to 545 °C (-25 to 999 °F) Fluke 66 -32 to 600 °C (-25 to 1100 °F) Fluke 68 -32 to 760 °C (-25 to 1400 °F)
MIN/MAX/AVG	Fluke 61 N/A Fluke 65 MIN/MAX Fluke 62 MAX Fluke 63 MAX Fluke 66 All Fluke 68 All
Datalogging	Fluke 61 N/A Fluke 65 N/A Fluke 62 N/A Fluke 63 N/A Fluke 66 Yes Fluke 68 Yes
Distance to spot ratio	Fluke 61 8:1 Fluke 65 8:1 Fluke 62 10:1 at 80% energy Fluke 63 12:1 Fluke 66 30:1 Fluke 68 50:1
Hi-Lo Alarm	Fluke 61 N/A

	Fluke 65 N/A Fluke 62 N/A Fluke 63 Yes Fluke 66 Yes Fluke 68 Yes
Optional RTD probe (contact temperature measurement)	Fluke 61 N/A Fluke 65 N/A Fluke 62 N/A Fluke 63 N/A Fluke 66 Yes Fluke 68 Yes
Emissivity	Fluke 61 Fixed at 0.95 Fluke 65 Fixed at 0.95 Fluke 62 Fixed at 0.95 Fluke 63 Fixed at 0.95 Fluke 66 Digitally adjustable (from 0.1 to 1.0 by 0.01) Fluke 68 Digitally adjustable (from 0.1 to 1.0 by 0.01)

Measurement Accuracy	
Fluke 61	-18 °C (0 °F) to -1 °C (30 °F) ± 3 °C (5 °F) above -1 °C (30 °F) to 275 °C (525 °F) ± 2% of reading or 2 °C (3.5 °F) (With the instrument stable between 23-25 °C)
Fluke 65	Above 0 °C (32 °F): ± 2 °C (± 4 °F) Below 0 °C (32 °F): ± 5 °C (± 9 °F) (With instrument stable at 23°C ± 3 °C)
Fluke 62	10 °C to 30 °C (50 °F to 86 °F): ± 1 °C (2 °F) Outside 10 °C to 30 °C (50 °F to 86 °F): ± 1.5 °C (3 °F) or ± 1.5 % of reading, whichever is greater
Fluke 63, 66, 68	-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% of reading or ±1 °C (±2 °F), whichever is greater