

# Fluke 59 MAX/59 MAX+ Infrared Thermometer

Fits your budget. Fits your job.

With 65 years of expertise as the leader in the test tools industry, Fluke has built the 59 MAX and 59 MAX+ IR thermometers with the precision you need to do your job accurately and within your budget. Designed to withstand a 1 meter drop, you can count on these lightweight, compact IR thermometers to work when you need them.



## Technical Data

### Product highlights

- Precise laser technology for more accurate and repeatable measurements
- Large, easy-to-read backlit LCD display for easy viewing
- Small and lightweight design fits easily into your tool box
- IP40 rated for extra protection
- 10:1 Distance to Spot ratio, 59 MAX+ (8:1 Distance to Spot ratio, 59 MAX)
- Displays the minimum, maximum or average temperature, or the difference between two measurements
- Hi and Lo alarms for rapid display of measurements outside the limits
- Powered by one (1) AA battery
- One year warranty

## Specifications

|   | <b>59 MAX</b>   | <b>59 MAX+</b>  |
|---|---|---|
| <b>Temperature range</b>  | -30 °C to 350 °C (-22 °F to 662 °F)                           | -30 °C to 500 °C (-22 °F to 932 °F)                           |
| <b>Accuracy (Calibration geometry with ambient temperature 23 °C ±2 °C)</b> | ≥ 0 °C: ± 2.0 °C or ± 2.0 % of reading, whichever is greater  | ≥ 0 °C: ± 1.5 °C or ± 1.5 % of reading, whichever is greater  |
|   | ≥ -10 °C to <0 °C: ± 2.0 °C                                   | ≥ -10 °C to <0 °C: ± 2.0 °C                                   |
|   | < -10 °C: ± 3.0 °C  | < -10 °C: ± 3.0 °C  |
|   | ≥ 32 °F: ± 4.0 °F or ± 2.0 % of reading, whichever is greater | ≥ 32 °F: ± 3.0 °F or ± 1.5 % of reading, whichever is greater |
|   | ≥ 14 °F to <32 °F: ± 4.0 °F                                   | ≥ 14 °F to <32 °F: ± 4.0 °F                                   |
|   | < 14 °F: ± 6.0 °F   | < 14 °F: ± 6.0 °F   |
| <b>Response time (95 %)</b>   | <500 ms (95 % of reading)                                     | < 500 ms (95 % of reading)                                    |
| <b>Spectral response</b>  | 8 μm to 14 μm   |   |
| <b>Emissivity</b>   | 0.10 to 1.00  |   |
| <b>Distance to spot ratio</b>   | 8:1<br>(calculated at 90 % energy)                            | 10:1<br>(calculated at 90 % energy)                           |
| <b>Display resolution</b>   | 0.1 °C (0.2 °F)   |   |
| <b>Repeatability (% of reading)</b>   | ±1.0 % of reading or ±1.0 °C (±2.0 °F), whichever is greater  | ±0.8 % of reading or ±1.0 °C (±2.0 °F), whichever is greater  |
| <b>General specifications</b>   |   |   |
| <b>Power</b>  | 1 AA IEC LR06 Battery   |   |
| <b>Batter life</b>  | 12 hours with laser and backlight on                          |   |
| <b>Weight</b>   | 220 g (7.76 oz)   |   |
| <b>Size</b>   | (156 x 80 x 50) mm (6.14 x 3.15 x 2) inches                   |   |
| <b>Operating temperature</b>  | 0 °C to 50 °C (32 °F to 122 °F)                               |   |
| <b>Storage temperature</b>  | -20 °C to +60 °C (-4 °F to 140 °F), (without battery)         |   |
| <b>Operating humidity</b>   | 10 % to 90 % RH non-condensing @ 30 °C (86 °F)                |   |
| <b>Operating altitude</b>   | 2000 meters above mean sea level                              |   |
| <b>Storage altitude</b>   | 12,000 meters above mean sea level                            |   |
| <b>Drop test</b>  | 1 m   |   |
| <b>Safety specifications</b>  |   |   |
| <b>Ingress protection rating</b>  | IP40 per IEC 60529  |   |
| <b>Vibration and shock</b>  | IEC 68-2-6 2.5 g, 10 to 200 Hz, IEC 68-2-27, 50 g, 11 ms      |   |
| <b>Compliance</b>   | EN/IEC 61010-1  |   |
| <b>Laser safety</b>   | FDA and EN 60825-1 Class II                                   |   |
| <b>Electromagnetic compatibility</b>  | 61326-1 EN 61326-2  |   |



### Ordering information

Fluke 59 MAX Infrared Thermometer  
 Fluke 59 MAX+ Infrared Thermometer

#### Included:

Thermometer, One (1) AA battery,  
 registration card and user instructions.

**Fluke.** *The Most Trusted Tools  
 in the World.*

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