

**TECHNICAL DATA**

# 64 MAX, 62 MAX+ and 62 MAX IR Thermometers


**TEMPERATURE RANGE**
**64 MAX**

-30 °C to 600 °C (-22 °F to 1112 °F)

**62 MAX+**

-30 °C to 650 °C (-22 °F to 1202 °F)

**62 MAX**

-30 °C to 500 °C (-22 °F to 932 °F)

**TEMPERATURE ACCURACY**
**64 MAX**

± 1.0 °C or ± 1.0 % of reading,  
whichever is greater

± 2.0 °C at -10 °C to 0 °C

± 3.0 °C at -30 °C to -10 °C

**62 MAX+**

± 1.0 °C or ± 1.0 % of reading,  
whichever is greater

± 2.0 °C at -10 °C to 0 °C

± 3.0 °C at -30 °C to -10 °C

**62 MAX**

± 1.5 °C or ± 1.5 % of reading,  
whichever is greater

± 2.0 °C at -10 °C to 0 °C

± 3.0 °C at -30 °C to -10 °C

**DISTANCE:SPOT**
**64 MAX**

20:1

**62 MAX+**

12:1

**62 MAX**

10:1

**INTERNAL MEMORY**
**64 MAX**

99 data point logging

**AUTO CAPTURE**
**64 MAX**


**Takes the heat, the dust and water and a 3 meter drop. And now, internal memory and unattended monitoring.**

The Fluke 64 MAX, 62 MAX+ and 62 MAX IR Thermometers have the precision you need to do your job accurately and will not break the budget. Designed and tested to survive a 3 meter drop, you can count on these lightweight, compact infrared thermometers to work when you need them to work—even in the harshest environments and when you're not able to be there (64 MAX).

- Precise laser technology for more accurate and repeatable measurements
- Temperature accuracy of up to  $\geq 0$  °C:  $\pm 1$  °C or  $\pm 1$  % of reading whichever is greater with 20:1 distance to spot ratio (64 MAX)
- Flashlight (64 MAX) and large, easy-to-read backlit LCD display for easy viewing even in dark environment
- IP54 rated for extra protection against airborne contaminants
- Get your tool to work when you can't—set time and desired interval between measurements and Auto Capture will capture spot temperatures unattended (64 MAX)
- 99 data point logging (64 MAX)
- Displays the minimum, maximum or average temperature, or the difference between two measurements
- Hi and Lo alarms for rapid display of measurements outside set limits
- The 62 MAX+ has dual rotating lasers to help you identify area to be measured. The measurement area is the spot between the dots (62 MAX and 64 MAX have 1).
- Small and lightweight, fits easily into your tool box

## Specifications

|                                                                         | 64 MAX                                                                                                                                                                         | 62 MAX+                                  | 62 MAX                                                                                                             |
|-------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|--------------------------------------------------------------------------------------------------------------------|
| Key features                                                            |                                                                                                                                                                                |                                          |                                                                                                                    |
| Temperature range                                                       | - 30 °C to 600 °C<br>(-22 °F to 1112 °F)                                                                                                                                       | - 30 °C to 650 °C<br>(-22 °F to 1202 °F) | - 30 °C to 500 °C<br>(-22 °F to 932 °F)                                                                            |
| Accuracy (Calibration geometry with ambient temperature 23 °C +/- 2 °C) | ± 1.0 °C or ± 1.0 % of reading, whichever is greater<br>± 2.0 °C at -10 °C to 0 °C<br>± 3.0 °C at -30 °C to -10 °C                                                             |                                          | ± 1.5 °C or ± 1.5 % of reading, whichever is greater<br>± 2.0 °C at -10 °C to 0 °C<br>± 3.0 °C at -30 °C to -10 °C |
| Optical resolution                                                      | 20:1<br>(calculated at 90 % energy)                                                                                                                                            | 12:1<br>(calculated at 90 % energy)      | 10:1<br>(calculated at 90 % energy)                                                                                |
| Response time (95 %)                                                    | < 500 ms (95 % of reading)                                                                                                                                                     | < 300 ms (95 % of reading)               | < 500 ms (95 % of reading)                                                                                         |
| Spectral response                                                       | 8 to 14 microns                                                                                                                                                                |                                          |                                                                                                                    |
| Emissivity                                                              | 0.10 to 1.00                                                                                                                                                                   |                                          |                                                                                                                    |
| Display resolution                                                      | 0.1 °C (0.2 °F)                                                                                                                                                                |                                          |                                                                                                                    |
| Repeatability (% of reading)                                            | ± 0.5 % of reading or ± 0.5 °C (whichever is greater)                                                                                                                          |                                          | ± 0.8 % of reading or<br>± 1 °C (whichever is greater)                                                             |
| Auto Capture                                                            | Set time and interval to capture up to 99 measurements                                                                                                                         | -                                        |                                                                                                                    |
| Internal memory                                                         | 99 data point logging capability                                                                                                                                               | -                                        |                                                                                                                    |
| Flashlight                                                              | Yes                                                                                                                                                                            | -                                        |                                                                                                                    |
| Power                                                                   | 1 AA alkaline battery                                                                                                                                                          |                                          |                                                                                                                    |
| Battery life                                                            | 30 hours with laser and backlight on                                                                                                                                           | 8 hours with laser and backlight on      | 10 hours with laser and backlight on                                                                               |
| Weight                                                                  | 255 g (8.99 oz)                                                                                                                                                                |                                          |                                                                                                                    |
| Size                                                                    | (175 x 85 x 75) mm (6.88 x 3.34 x 2.95) inches                                                                                                                                 |                                          |                                                                                                                    |
| Operating temperature                                                   | 0 °C to 50 °C (32 °F to 122°F)                                                                                                                                                 |                                          |                                                                                                                    |
| Storage temperature                                                     | -20 °C to 60 °C (-4 °F to 140 °F) (without battery)                                                                                                                            |                                          |                                                                                                                    |
| Operating humidity                                                      | Non- condensing @ ≤ 10 °C (50 °F)<br>≤ 90 % RH @ 10 °C (50 °F) to 30 °C (86 °F)<br>≤ 75 % RH @ 30 °C (86 °F) to 40 °C (104 °F)<br>≤ 45 % RH @ 40 °C (104 °F) to 50 °C (122 °F) |                                          |                                                                                                                    |
| Operating altitude                                                      | 2000 meters above mean sea level                                                                                                                                               |                                          |                                                                                                                    |
| Storage altitude                                                        | 12,000 meters above mean sea level                                                                                                                                             |                                          |                                                                                                                    |
| Drop test                                                               | 3 meters                                                                                                                                                                       |                                          |                                                                                                                    |
| Implement standard                                                      | Q/ASFO1                                                                                                                                                                        |                                          |                                                                                                                    |
| Standards and agency approval                                           |                                                                                                                                                                                |                                          |                                                                                                                    |
| Compliance                                                              | IEC 61010-1: Pollution Degree 2                                                                                                                                                |                                          |                                                                                                                    |
| Laser safety                                                            | IEC 60825-1 Class 2, 650 nm, < 1 mW                                                                                                                                            |                                          |                                                                                                                    |
| Ingress protection rating                                               | IP 54 per IEC 60529                                                                                                                                                            |                                          |                                                                                                                    |
| Warranty                                                                | 3 years                                                                                                                                                                        |                                          |                                                                                                                    |

## Ordering information

**Fluke-64 MAX** IR Thermometer  
**Fluke-62 MAX+** IR Thermometer  
**Fluke-62 MAX** IR Thermometer

### Included with product

IR Thermometer  
Printed instruction sheet  
Carabiner (62 MAX+ only)  
Product manuals available for download from [fluke.com](http://fluke.com)

### Kits

**Fluke T5-600/62 MAX+/1AC II**  
IR Thermometer, Electrical Tester  
and Voltage Detector Kit

### Fluke 62 MAX+/323/1AC

IR Thermometer, Clamp Meter and  
Voltage Detector Kit

### Optional accessories

**FLK-TI-TRIPOD** Tripod Mounting Accessory for 64 MAX

**Fluke.** *Keeping your world  
up and running.®*

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

©2017 Fluke Corporation.  
Specifications subject to change without notice.  
2/2017 6008893b-en