

TECHNICAL DATA

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



**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  $\geq 0\text{ }^{\circ}\text{C}$ :  $\pm 1\text{ }^{\circ}\text{C}$  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

**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**

$\pm 1.0\text{ }^{\circ}\text{C}$  or  $\pm 1.0\%$  of reading, whichever is greater  
 $\pm 2.0\text{ }^{\circ}\text{C}$  at  $-10\text{ }^{\circ}\text{C}$  to  $0\text{ }^{\circ}\text{C}$   
 $\pm 3.0\text{ }^{\circ}\text{C}$  at  $-30\text{ }^{\circ}\text{C}$  to  $-10\text{ }^{\circ}\text{C}$

**62 MAX+**

$\pm 1.0\text{ }^{\circ}\text{C}$  or  $\pm 1.0\%$  of reading, whichever is greater  
 $\pm 2.0\text{ }^{\circ}\text{C}$  at  $-10\text{ }^{\circ}\text{C}$  to  $0\text{ }^{\circ}\text{C}$   
 $\pm 3.0\text{ }^{\circ}\text{C}$  at  $-30\text{ }^{\circ}\text{C}$  to  $-10\text{ }^{\circ}\text{C}$

**62 MAX**

$\pm 1.5\text{ }^{\circ}\text{C}$  or  $\pm 1.5\%$  of reading, whichever is greater  
 $\pm 2.0\text{ }^{\circ}\text{C}$  at  $-10\text{ }^{\circ}\text{C}$  to  $0\text{ }^{\circ}\text{C}$   
 $\pm 3.0\text{ }^{\circ}\text{C}$  at  $-30\text{ }^{\circ}\text{C}$  to  $-10\text{ }^{\circ}\text{C}$

**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**

## Specifications

	64 MAX	62 MAX+	62 MAX
<b>Key features</b>			
Temperature range	-30 °C to 600 °C (-22 °F to 1112 °F)	-30 °C to 650 °C (-22 °F to 1202 °F)	-30 °C to 500 °C (-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 ± 2.0 °C at -10 °C to 0 °C ± 3.0 °C at -30 °C to -10 °C		± 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
Optical resolution	20:1 (calculated at 90 % energy)	12:1 (calculated at 90 % energy)	10:1 (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 ± 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) ≤ 90 % RH @ 10 °C (50 °F) to 30 °C (86 °F) ≤ 75 % RH @ 30 °C (86 °F) to 40 °C (104 °F) ≤ 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		
<b>Standards and agency approval</b>			
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

### 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.®

**Fluke Corporation**  
 PO Box 9090, Everett, WA 98206 U.S.A.

**Fluke Europe B.V.**  
 PO Box 1186, 5602 BD  
 Eindhoven, The Netherlands

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

### For more information call:

In the U.S.A. (800) 443-5853 or  
 Fax (425) 446-5116  
 In Europe/M-East/Africa +31 (0)40 267 5100 or  
 Fax +31 (0)40 267 5222  
 In Canada (800)-36-FLUKE or  
 Fax (905) 890-6866  
 From other countries +1 (425) 446-5500 or  
 Fax +1 (425) 446-5116  
 Web access: <http://www.fluke.com>

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