

# MOISTURE, AIR & TEMPERATURE

## INFRARED THERMOMETERS

Get easy and safe temperature readings in less than a second.



Model 61

These handheld portable tools enable professionals to research heating and ventilation problems, monitor the status of electrical motors and electrical panels and diagnose car malfunctions with ease.

### Model 63 Pistol Grip Infrared Thermometer

The 63 pistol grip thermometer offers an easy to use solution for temperature measurement in hard-to-reach, hot, rotating or dangerous situations.

- Wide temperature range and quick response time
- Superb optics for measuring temperature of surfaces from a distance



Model 63

### Model 61

- Easy to use one button operation
- Easy targeting with bright laser
- Shock-absorbing holster increases ruggedness



- Temperature measurement range up to 500°C (932 °F)
- High-resolution optics
- Accurate to within  $\pm 1\%$  of reading
- MAX temperature display
- Laser sighting
- Backlit display

### Recommended accessories – 63 Thermometer



80PR-60  
Temperature Probe



H6  
Meter Case



C550  
Tool Bag

### Recommended accessories – 61 Thermometer



C510  
Meter Case



C 3  
Meter Case



C90  
Meter Case



C50  
Meter Case

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## Specifications - 60 Series Thermometers

Specifications	61	63
Temperature range	-18°C to 275°C (0°F to 525°F)	-32°C to 600°C (-25°F to 999°F)
Response time	< 1 second	≤ 0.5 second (95% of reading)
Spectral response	7 to 18 μm	8 to 14 μm
Resolution	0.2°C (0.5°F)	0.2°C (0.5°F)
Repeatability	±2°C or ±2%, whichever is greater	±0.5% or ≤ ± 1°C (± 2°F) whichever is greater
Ambient operating temperature	0°C to 50°C (32°F to 120°F)	23°C (73°F)
Relative humidity	10 to 90% RH non-condensing, at < 50°C (120°F)	10 to 90% RH non-condensing, at < 30°C (86°F) ambient
Storage temperature	-20°C to 60°C (-4°F to 140°F) without battery	-20°C to 60°C (-13°F to 158°F) without battery
Dimensions	190 x 51 x 41 mm (7.5 x 2 x 1.6 in)	200 x 160 x 55 mm (8 x 6 x 2 in)
Weight	341 g (0.75 lb)	320 g (11 oz)
Power	9 V Alkaline or NiCd battery	9 V Alkaline or NiCd battery
Battery life (alkaline)	12 hours	10 hours with laser and backlight on 40 hours with laser and backlight off
Typical distance to target	1m (3 ft)	Up to 2m (6 ft)
Warranty	One-year	Two-year limited

### Included Accessories:

**Model 61 includes:** holster, instruction sheet and 9V battery

**Models 63 includes:** carrying case, hand strap, instruction manual, users manual on CD-ROM and 9V battery

TH-510141	Model 61 Infrared Thermometer.....	\$179.99
TH-510147	Model 63 Infrared Thermometer.....	349.99
<b>Accessories</b>		
TH-510163	H6 Meter Holster (63).....	49.99
9TH-510167	C550 Tool Bag.....	109.99
TH-510169	C510 Leather Meter Case.....	79.99
TH-510171	C23 Soft Meter Case, Vinyl (61).....	34.99
TH-510173	C90 Soft Carrying Case.....	39.99
TH-510175	C50 Soft Carrying Case.....	39.99

*Certificate of calibration available upon request for additional charge.*

# MOISTURE, AIR & TEMPERATURE

## 62 MAX and 62 MAX+



62 MAX



62 MAX+

### Features

- **Durability** - the 62 MAX and 62 MAX+ can survive a 3-meter (9.8 foot) drop
- **Size** - They are easy to carry and always with you. The 62 MAX+ clips quickly to your tool belt
- **Dust/water resistance** - IP54 rated for dust and water resistance.
- **Ergonomically designed** - Completely redesigned for a more comfortable hand fit
- **Small in size** - Small and lightweight; clips to your tool belt or belt loop or easily fits into your tool box.
- **Distance to spot** - Precise laser technology makes for more accurate and repeatable measurements.
- **Dual lasers** - The 62 MAX+ has dual rotating lasers to help you identify area to be measured. The measurement area is the spot between the dots.
- **Large, backlit display** - Large screen makes data easier to read, even in the dark areas.
- **Min/Max/Avg/Dif** - Displays the minimum, maximum or average temperature, or the difference between two measurements.
- **Alarm** - Hi and Lo alarms for rapid display of measurements outside the limits.
- **Power** - Both the 62 MAX and 62 MAX+ are powered by a single, standard AA battery.

### SPECIFICATIONS

	62 MAX	62 MAX+
Temperature Range	-30°C to 500°C (-22°F to 932°F)	-30°C to 650°C (-22°F to 1202°F)
Accuracy	±1.5°C or ± 1.5% of reading ±2.0 at -10°C to 0°C ±3.0 at -30°C to -10°C	±1.0°C or ±1.0% of reading ±2.0 at -10°C to 0°C ±3.0 at -30°C TO -10°C
Response Time (95%)	< 500 ms (95% of reading) Spectral Response: 8 to 14 microns Emissivity: 0.10 to 1.00	< 300 ms (95% of reading) Spectral Response: 8 to 14 microns Emissivity: 0.10 to 1.00
Optical Resolution	10:1 (calculated at 90% energy)	12:1 (calculated at 90% energy)
Display Resolution	0.1°C (0.2°F)	0.1°C (0.2°F)
Repeatability of Readings	±0.8% of reading or < ± 1.0°C (2°F), whichever is greater	±0.5% of reading or < ± 0.5°C (1°F), whichever is greater
Power	AA battery	AA battery

TH-510243 62 MAX Single laser infrared thermometer, 10:1 spot ..... \$99.99  
 TH-510245 62 MAX+ dual laser infrared thermometer, 12:1 spot..... 149.99

# MOISTURE, AIR & TEMPERATURE

## 561 INFRARED AND CONTACT THERMOMETER

IR thermometer with K-type thermocouple capability

### The multipurpose thermometer you need.

The 561 combines the temperature measurement functions that industrial, electrical and HVAC/R professionals need, all in one tool. It measures both IR and contact temperature, replacing several other test tools. It's fast, efficient and easy to use, saving you valuable time and effort.

With the 561, you can take contact and ambient temperatures in the way that's best for you. Use the IR thermometer to measure hot, moving, electrically energized and hard-to-reach objects instantly. Check motors, insulation, breakers, radiant heating, pipes, corroded connections and wires. Plus, scan ducts and other hard-to-reach objects from the floor - leave your ladder in the truck. You can use the 561's handy Velcro® pipe probe or, plug in any industry-standard K-type mini-connector thermocouple probe you already own.



*Includes: 561 IR thermometer, K-Type thermocouple Velcro® pipe probe, Hard carrying case, 2 AA batteries, User's manual.*

TH-511005	561 IR Thermometer .....	\$199.99
<b>Accessories</b>		
TH-510163	H6 Infrared Thermometer Holster .....	\$49.99
TH-511021	80PK-1 Bead Probe (Type K) .....	34.99
TH-511067	80PK-25 Piercing Temperature Probe .....	119.99
TH-511072	80PK-3A Surface Probe (Type K) .....	159.99
TH-511073	80PK-8 Pipe Clamp Temperature Probe (Type K) .....	179.99

## 566 AND 568 THERMOMETERS

Two-in-one infrared and contact thermometers  
with an innovative dot matrix display.

The 566 and 568 make even complex measurements easy. Quickly navigate and adjust emissivity, start data logging or turn on and off alarms with just a few pushes of a button.

With a rugged, easy-to-use, ergonomic design, the 566 and 568 can stand up to tough industrial, electrical and mechanical environments.



TH-511046	566 Infrared and Contact Thermometer .....	\$349.99
<i>Includes: Thermocouple K bead probe, Durable hard case, 2 AA batteries, Getting Started guide in 6 languages, User's Manual on CD in 6 languages (English, Spanish, French, German, Portuguese and Simplified Chinese)</i>		
TH-511048	568 Infrared and Contact Thermometer .....	\$399.99
<i>Includes: Same as above but also includes USB cable and FlukeView® Forms software on CD</i>		

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## Specifications – Infrared Thermometers

Models	Fluke 561	Fluke 566	Fluke 568
Infrared temperature range	-40 °C to 535 °C (-40 °F to 1022 °F)	-40 °C to 650 °C (-40 °F to 1200 °F)	-40 °C to 800 °C (-40 °F to 1470 °F)
Accuracy	greater of ± 1 % or ± 1 °C (2 °F)		
Distance to Spot (D:S)	12:1	30:1	50:1
Sighting	Laser point		
Typical distance to target	Up to 2.5 m (7 ft)	Up to 4.5 m (15 ft)	Up to 7.5 m (25 ft)
Probe type	Thermocouple K		
Contact temperature range	-40 °C to 550 °C (-40 °F to 1022 °F)	-270 °C to 1372 °C (-454 °F to 2501 °F)	
Number of on-board memory locations		20	99
PC download and software			Yes, with FlukeView® Forms
Soft-key feature menu navigation			Yes
Min/Max/Avg/Dif	Min/Max/Dif	Min/Max/Avg/Dif	
English, French, Chinese, Spanish, Portuguese, German user interface		Yes	
Material type adjustment (emissivity)	Hi/Med/Low	Material table or 0.1 to 1.00 by 0.01	
Two levels of backlight		Yes	
High and low alarms		High and low alarms	
Hazardous location approval			
Hands-free logging			Yes
Battery		2 AA	
Included case	Hard case (except 561/R and 561/P)	Hard case	
Warranty		Two-years	

### Accessories for 566 and 568

TH-510163	H6 Infrared Thermometer Holster .....	\$49.99
<b>Probes</b>		
TH-511061	80PK-11 Thermocouple Temperature Probe .....	\$44.99
TH-511063	80PK-22 Immersion Temperature Probe .....	99.99
TH-511065	80PK-24 Air Temperature Probe .....	119.99
TH-511067	80PK-25 Piercing Temperature Probe .....	119.99
TH-511069	80PK-26 Tapered Temperature Probe .....	119.99
TH-511071	80PK-27 Industrial Surface Temperature Probe .....	329.99
TH-511073	80PK-8 Pipe Clamp Temperature Probe (Type K) .....	179.99
TH-511075	80PK-9 General Purpose Probe (Type K) .....	69.99
TH-511077	80PK-EXT Extension Wire Kit (Type K) .....	59.99