FLUKE ®

Fluke 59 MAX/59 MAX+
Infrared Thermometer

Fits your budget. Fits your job.

Technical Data

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.

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 fits 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

New

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تهران ، کیلومتر۲۱ بزرگراه لشگری (جاده مخصوص کرج)
روبـروی پالایشگاه نفت پارس، پلاک ۱۲

Specifications

	59 MAX		59 MAX+	
Temperature range	–30 °C to 350 °C (–22 °F to 662 °F)		–30 °C to 500 °C (–22 °F to 932 °F)	
Accuracy (Calibration geometry with ambient temperature 23 °C ±2 °C)	≥ 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
Response rime (95 %)	<500 ms (95 % of reading)		< 500 ms (95 % of reading)	
Spectral response	8 μm to 14 μm			
Emissivity	0.10 to 1.00			
Distance to spot ratio	8:1 (calculated at 90 % energy)		10:1 (calculated at 90 % energy)	
Display resolution	0.1 °C (0.2 °F)			
Repeatability (% of reading)	±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	
General specifications				
Power	1 AA IEC LR06 Battery			
Batter life	12 hours with laser and backlight on			
Weight	220 g (7.76 oz)			
Size	(156 x 80 x 50) mm (6.14 x 3.15 x 2) 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	10 % to 90 % RH non-condensing @ 30 °C (86 °F)			
Operating altitude	2000 meters above mean sea level			
Storage altitude	12,000 meters above mean sea level			
Drop test	1 m			
Safety specifications				
Ingress protection rating	IP40 per IEC 60529			
Vibration and shock	IEC 68-2-6 2.5 g, 10 to 200 Hz, IEC 68-2-27, 50 g, 11 ms			
Compliance	EN/IEC 61010-1			
Laser safety	FDA and EN 60825-1 Class II			
Electromagnetic compatibility	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.

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تهران، کیلومتر۲۱ بزرگراه لشگری (جاده مخصوص کرج)

روبـروی پالایشگاه نفت پارس، پلاک ۱۲

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FLUKE.

Fluke 561 HVACPro

Two-in-one infrared and contact thermometer for HVAC/R Professionals

Technical Data

The multipurpose thermometer you need for HVAC jobs.

Lighten up your toolbox. The Fluke 561 HVACPro combines the temperature measurement functions that professionals need for most HVAC jobs, all in one tool. It measures **both IR and contact temperature**, replacing several hundred dollars worth of equipment. It's fast, efficient and easy to use, saving you valuable time and effort.

With the Fluke 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 from the floor—leave your ladder in the truck. You can use the Fluke 561's handy Velcro® pipe probe or, to get the most out of your tool investments, plug in any industry-standard K-type mini-connector thermocouple probes you already own.
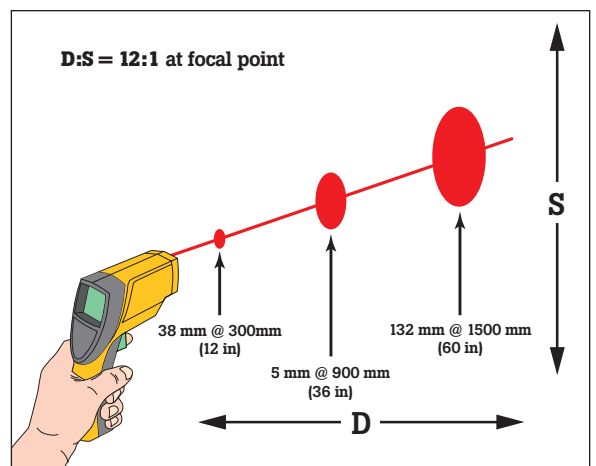
Features include:

- IR thermometer for quick measurements up close or at a distance, without a ladder
- Contact thermometry capability, compatible with all standard mini-connector K-type thermocouples, preserves your investment in thermocouples
- Velcro® pipe probe for superheat and sub-cooling and other contact and ambient measurements
- Single-point laser sighting
- Temperature range optimized for HVAC/R applications
- Easy emissivity adjustment for measuring pipes and ducts more accurately
- Lightweight (just 12 ounces/ 340 grams) and portable

- Very easy to use
- Efficient—no need to shut down equipment when making IR measurements
- MIN, MAX and DIF functions help you quickly identify problems
- Scan large areas or small objects quickly and efficiently
- HVAC/R measurement guide to maximize your productivity gains is included in users guide

Laser-guided sighting for IR measurements

When using the Fluke 561 in the IR mode, the single dot, laser sighting system guides measurements to the right target. The dot indicates the approximate center of the measurement area.

D:S = 12:1 at focal point

38 mm @ 300mm (12 in)
5 mm @ 900 mm (36 in)
132 mm @ 1500 mm (60 in)
S
D

When measuring smaller objects, use the Fluke 561 within 6 ft. (1.75 m) of the intended target. The measured area increases with distance (the distance divided by 12, approximately).

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روبـروی پالایشگاه نفت پارس، پلاک ۱۲

Product specifications

	Fluke 561
Temperature range	–40 °C to 550 °C (–40 °F to 1022 °F)
Display resolution	0.1 °C (0.1 °F) of reading
D:S (Distance to spot size)	12:1
Easy emissivity selector	Adjustable with three settings: low (0.3), medium (0.7), high (0.95)
Display accuracy [Assumes ambient operating temperature of 23 °C (73 °F) to 25 °C (77 °F)]	± 1.0 % of reading or ± 1 °C (± 2 °F), whichever is greater; below 0 °C (32 °F), ± 1 °C (± 2 °F) ± 0.1°/1°
Response time	500 mSec (95 % of reading)
Repeatability	± 0.5 % of reading or ± 1 °C (± 2 °F), whichever is greater
Spectral response	8 µm to 14 µm
Laser sighting	Single-point laser
Laser shutoff	Laser turns off above ambient temperature of 40 °C (104 °F)
Laser power	Class 2 (II) operation; output <1 mW, wavelength 630 nm to 670 nm
Relative humidity	10 % to 90 % RH non-condensing, at < 30 °C (86 °F)
Power	2 AA batteries (alkaline or NiCD)
Battery life (alkaline)	12 hours
Display hold	7 seconds
Backlit display	Yes, LCD with dual temperatures (current and MAX/MIN/DIF/KTC), low battery, F/C indicator, and Scan/Hold options
Operating temperature	0 °C to 50 °C (32 °F to 120 °F)
Storage temperature	–20 °C to 65 °C (–25 °F to 150 °F)
MAX, MIN, DIF temperatures	Yes
Thermocouple type K mini-adapter input	Yes, compatible with industry standard type K probes with mini-connector
Thermocouple type K Velcro pipe probe	Yes, with a temperature range of 0 °C to 100 °C (32 °F to 212 °F) and accuracy of ± 2.2 °C (± 4 °F)
HVAC measurement guide	Yes
Warranty	Two-year

Optional accessories

Model	Features
80PK-1 Bead Probe	• Type K thermocouple for general-purpose applications • Measurement range: –40 °C to 260 °C (–40 °F to 500 °F) • One-year warranty
80PK-3A Surface Probe	• Type K thermocouple for flat or curved surfaces such as plates and rollers • Measurement range: 0 °C to 260 °C (32 °F to 500°F) • One-year warranty
80PK-EXT Extension Wire Kits	• Extending and repairing type K thermocouple wires • Kit includes 3 meters of thermocouple wire and 1 pair of male/female mini-connectors • Maximum continuous exposure temperature: 260 °C (500 °F) • 80PK-EXT is compatible with type K thermometers • One-year warranty
80CK-M type K Male Mini-Connectors	• Isothermal screw terminal for K wire • Suitable for up to 20 gauge thermocouple wire • Color-coded to industry standards (K-yellow) • Two per package • One-year warranty
80PK-8 Pipe Clamp Temperature Probe	• Type K thermocouple for fast temperature and superheat measurements of pipe surfaces • Durable ribbon sensor • Measurement range: –29 °C to149 °C (–20 °F to 300 °F) for pipe diameters from 6.4 mm to 34.9 mm (0.25 in to 1.37 in) • One-year warranty
80PK-22 SureGrip™ Immersion Temperature Probe	• Type Ke thermocouple for use in liquids and gels • Measurement range: –40 °C to 1090 °C (–40 °F to 1994 °F) • One-year warranty
80PK-24 SureGrip™ Air Temperature Probe	• Type K thermocouple for use in air and non-caustic gas measurements • Bead protected by perforated baffle • Measurement range: –40 °C to 816 °C (–40 °F to 1501 °F) • One-year warranty
80 PK-25 SureGrip™ Piercing Temperature Probe	• Type K thermocouple suitable for food industry, liquids and gels • Measurement range: –40 °C to 350°C (–40 °F to 662 °F) • One-year warranty
80PK-26 SureGrip™ Tapered Temperature Probe	• Type K thermocouple with tapered tip for use in air, non-caustic gas and surface applications • Measurement range: –40 °C to 816 °C (–40 °F to 1501 °F) • One-year warranty
80PK-27 SureGrip™ Industrial Surface Temperature Probe	• Type K thermocouple for surfaces in rugged environment • Durable ribbon sensor • Measurement range: –127 °C to 600 °C (–196 °F to 1112 °F) • One-year warranty
H6 Infrared Thermometer Holster	• Snap-on loop attaches to belt • Durable nylon holster • Velcro® closures provide quick access and secure storage

Ordering information

Fluke-561   HVACPro

Includes: Infrared thermometer with contact thermometer capabilities, thermocouple K-type Velcro® pipe probe, hand carrying case and user manual with HVAC measurement guide.

Fluke. *Keeping your world up and running.*

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FLUKE®

Fluke 566 and 568 Thermometers

Technical Data

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

Just when you thought advanced IR temperature measurement should be easier! With a straight-forward user interface and soft-key menus, the Fluke 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 Fluke 566 and 568 can stand up to tough industrial, electrical, and mechanical environments.

- Measure –40 °C to 800 °C /–40 °F to 1472 °F (568) or –40 °C to 650 °C/–40 °F to 1202 °F (566)
- Easily access advanced features with the soft-key buttons and graphical display
- Measure smaller objects from further away, with a distance-to-spot ratio of 50:1 (568) or 30:1 (566)
- Compatibility with all standard miniconnector K-type thermocouples allows you to preserve your thermocouple investments
- Confidently measure a wide variety of surfaces with the adjustable emissivity feature, including a built-in material table
- Capture up to 99 points (568) or 20 point (566) of data, for downloading and recalling later
- Easily trend and analyze data with included FlukeView® Forms software (568)

- See your data right away without leaving the site, using the USB (568) and your laptop for "Hands-free" datalogging
- Confidently troubleshoot equipment with 1 % measurement accuracy
- Versatile interface with six languages from which to choose
- Two-year warranty

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روبـروی پالایشگاه نفت پارس، پلاک ۱۲

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Product specifications

	566	568
Infrared temperature range	–40 °C to 650 °C (–40 °F to 1202 °F)	–40 °C to 800 °C (–40 °F to 1472 °F)
Infrared accuracy	< 0 °C (32 °F): ± (1.0 °C (± 2.0 °F) + 0.1°/1 °C or °F); > 0 °C (32 °F): ± 1 % or ± 1.0 °C (± 2.0 °F), whichever is greater	
Display resolution	0.1 °C / 0.1 °F	
Infrared spectral response	8 µm to 14 µm	
Infrared response time	< 500 msec	
Thermocouple Type-K input temperature range	–270 °C to 1372 °C (–454 °F to 2501 °F)	
Thermocouple Type-K input accuracy	–270 °C to –40 °C: ± (1 °C + 0.2 °/1 °C) (–454 °F to –40 °F: ± (2 °F + 0.2 °/1 °F)) –40 °C to 1372 °C: ± 1 % or 1 °C (–40 °F to 2501 °F: ± 1 % or 2 °F), whichever is greater	
D:S (distance to measurement spot size)	30:1	50:1
Laser sighting	Single-point laser < 1 mw output Class 2 (II) operation, 630 nm to 670 nm	
Minimum spot size	19 mm (0.75 in)	
Emissivity adjustment	By built-in table of common materials or digitally adjustable from 0.10 to 1.00 by 0.01	
Data storage with Date/Time stamp	20 points	99 points
PC Interface and cable	None	USB 2.0 with FlukeView® Forms software
Hi/Low alarms	Audible and two-color visual	
Min/Max/Avg/Dif	Yes	
Display	Dot matrix 98 x 96 pixels with function menus	
Backlight	Two levels, normal and extra bright for darker environments	
Trigger lock	Yes	
Switchable Celsius and Fahrenheit	Yes	
Power	2 AA/LR6 Batteries	2 AA/LR6 Batteries and USB when used with a PC
Battery life	If used continuously: laser and backlight on,12 hours; laser and backlight off, 100 hours	
Operating temperature	0 °C to 50 °C (32 °F to 122 °F)	
Storage temperature	–20 °C to 60 °C (–40 °F to 140 °F)	
Bead thermocouple Type-K range	–40 °C to 260 °C (–40 °F to 500 °F)	
Bead thermocouple Type-K accuracy	± 1.1 °C (2.0 °F) from 0 °C to 260 °C (32 °F to 500 °F), typically within 1.1 °C (2.0 °F) from –40 °C to 0 °C (–40 °F to 32 °F)	

Ordering information

Fluke-566 Infrared thermometer
Fluke-568 Infrared thermometer

Includes: Infrared thermometer with contact thermometer capabilities, FlukeView® Forms software (568 only), USB cable (568 only), K-type thermocouple bead probe, hard carrying case, quick start guide, and users manual.

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