

FLUKE®

Fluke 561 Multipurpose Thermometer

Combined Infrared and Contact Thermometer



Fluke. *Keeping your world up and running.*

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The Fluke 561 includes everything you need for immediate inspections.

Combined Infrared and Contact Thermometer

The easy-to-use Fluke 561 combines the temperature measurement functions that professionals need for various heating, ventilation and air conditioning monitoring jobs, all in one tool. It provides both non-contact infrared (IR) and contact temperature measurements, replacing the need for multiple test tools. Use the IR thermometer to measure hot, moving, electrically energized and hard-to-reach objects instantly without the need for a ladder or having to shut down equipment. Use the unit's Velcro pipe probe for easy contact measurements, or plug in any industry-standard K-type mini-connector thermocouple you already have.

- IR thermometer for quick measurements up close or at a distance
- Single-point laser sighting
- Easy emissivity adjustment for measuring pipes and ducts more accurately
- Includes a Velcro pipe probe for super-heat and sub-cooling as well as other surface contact measurements
- Also compatible with all standard mini-connector K-type thermocouples
- MIN, MAX and DIF temperature readings
- Lightweight (only 340 grams) and portable
- Includes measurement guide

Specifications

Temperature range	-40° to 550°C
Display resolution	0.1° 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° to 25°C)	± 1.0% of reading or ± 1°C, whichever is greater; below 0°C, ± 1°C, ± 1°/1°
Response time	500 mSec (95% of reading)
Repeatability	± 0.5% of reading or ± 1°C, whichever is greater
Spectral focus	8 µm to 14 µm
Laser sighting	Single-point laser
Laser shutoff	Laser turns off above ambient temperature of 40°C
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
Power	2 AA batteries (alkaline or NiCD)
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° to 50°C
Storage temperature	-20 to 65°C
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° to 100°C and accuracy of ± 2.2°C
Measurement guide	Yes

Battery Life (alkaline): 12 hours

Size (HxLxW): 176.9 mm x 163.6 mm x 518 mm

Weight: 340 grams

Two years warranty

Optional accessories

Model	Features
H6 Infrared Thermometer Holster	<ul style="list-style-type: none"> • Snap-on loop attaches to belt • Velcro closures for quick access and secure storage
80PK-1 Bead Probe	<ul style="list-style-type: none"> • Type-K thermocouple for general-purpose applications • Measurement range: -40° to 260°C
80PK-3A Surface Probe	<ul style="list-style-type: none"> • Type-K thermocouple for flat or curved surfaces such as plates and rollers • Measurement range: 0° to 260°C
80PK-EXT Extension Wire Kits	<ul style="list-style-type: none"> • Extending and repairing type-K thermocouple wires • Maximum continuous exposure temperature: 260°C • Compatible with type-K thermometers
80CK-M type K Male Mini-Connectors	<ul style="list-style-type: none"> • Isothermal screw terminal for K wire • Suitable for up to 20 gauge thermocouple wire
80PK-8 Pipe Clamp Temperature Probe	<ul style="list-style-type: none"> • Type-K thermocouple for fast temperature and superheat measurements of pipe surfaces • Measurement range: -29° to 149°C for pipe diameters from 6.4 mm to 34.9 mm
80PK-22 SureGrip Immersion Temperature Probe	<ul style="list-style-type: none"> • Type-K thermocouple for use in liquids and gels • Measurement range: -40° to 1090°C
80PK-24 SureGrip Air Temperature Probe	<ul style="list-style-type: none"> • Type-K thermocouple for use in air and non-caustic gas measurements • Measurement range: -40° to 816°C
80PK-25 SureGrip Piercing Temperature Probe	<ul style="list-style-type: none"> • Type-K thermocouple suitable for food industry, liquids and gels • Measurement range: -40° to 350°C
80PK-26 SureGrip Tapered Temperature Probe	<ul style="list-style-type: none"> • Type-K thermocouple with tapered tip for use in air, non-caustic gas and surface applications • Measurement range: -40° to 816°C
80PK-27 SureGrip Industrial Surface Temperature Probe	<ul style="list-style-type: none"> • Type-K thermocouple for surfaces in rugged environment • Measurement range: -127° to 600°C

Included accessories

Thermocouple K-type Velcro pipe probe, hand carrying case, 2 AA batteries and user manual with measurement guide.

Ordering information

Fluke 561 HVACPro Thermometer