

Fluke 561 Multipurpose Thermometer

Combined Infrared and Contact Thermometer

FLUKE

561 HVACPro IR THERMOMETER



Fluke. Keeping your world up and running.

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Pub_ID: 11086-eng

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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 noncontact 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 superheat and sub-cooling as well as other surface contact measurements
- Also compatible with all standard miniconnector K-type thermocouples
- MIN, MAX and DIF temperature readings
 Lightweight (only 340 grams) and
- portable
- Includes measurement guide

Specifications



The Fluke 561 includes everything you need for immediate inspections.

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)	\pm 1.0% of reading or \pm 1°C, whichever is greater; below 0°C, \pm 1°C, \pm 1°/1
Response time	500 mSec (95% or reading)
Repeatability	\pm 0.5% of reading or \pm 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	Snap-on loop attaches to belt Velcro closures for quick access and secure storage
80PK-1 Bead Probe	Type-K thermocouple for general-purpose applications Measurement range: -40° to 260°C
80PK-3A Surface Probe	• Type-K thermocouple for flat or curved surfaces such as plates and rollers • Measurement range: 0° to 260°C
80PK-EXT Extension Wire Kits	 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	Isothermal screw terminal for K wire Suitable for up to 20 gauge thermocouple wire
80PK-8 Pipe Clamp Temperature Probe	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	 Type-K thermocouple for use in liquids and gels Measurement range: -40° to 1090°C
80PK-24 SureGrip Air Temperature Probe	Type-K thermocouple for use in air and non-caustic gas measurements Measurement range: -40° to 816°C
80PK-25 SureGrip Piercing Temperature Probe	 Type-K thermocouple suitable for food industry, liquids and gels Measurement range: -40° to 350°C
80PK-26 SureGrip Tapered Temperature Probe	 Type-K thermocouple with tapered tip for use in air, non-caustic gas and and surface applications Measurement range: -40° to 816°C
80PK–27 SureGrip Industrial Surface Temperature Probe	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