

# 561 Multipurpose Thermometer

FLUKE®



Fluke 561

## Combined Infrared and Contact Thermometer

The Fluke 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 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, and other hard-to-reach objects from the floor—leave your ladder in the truck. You can use the Fluke 561's handy Velcro® pipe probe or, plug in any industry standard, K-type mini-connector thermocouple probe you already own.

- 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



The Fluke 561 includes everything you need for immediate inspections.

## 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 x 163,6 x 51,8 mm

**Weight:** 0.34 kg  
**Two years warranty**

### 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

## Recommended Accessories



**H6**  
See page 153



**80-PK-1**  
See page 150



**80PK-8**  
See page 150



**80PK-25**  
See page 150