

# Multi-purpose IR and penetration thermometer

testo 104-IR

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One product, two purposes: Infrared and penetration thermometer

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Robust yet compact design with durable folding joint

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Precise 2-point laser with 10:1 optics displays the exact measuring range and guarantees error-free measurements

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Waterproof (IP65) and HACCP-compliant

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The testo 104-IR is a waterproof (IP65) penetration thermometer combined with an infrared sensor for non-contact temperature measurement. It can be used for various applications in the food sector. The precise testo 104-IR scans the surface temperature of individual foods or entire pallets from a distance. If a limit value is exceeded or undershot, the hinged penetration probe is also able to measure the core temperature.

The penetration probe is always securely stowed on the instrument itself. As soon as the probe is opened up, the display is activated, and the IR measurement starts at the touch of a button. Thanks to the large display, it is easy to read the measurement result.

Its few buttons are ergonomically placed and user friendly. No time-consuming measurements, no complicated handling, no compromises. For quick, accurate and convenient temperature measurements anywhere at anytime, the 104-IR thermometer is unmatched in value and quality.

# Technical data

## testo 104-IR

testo 104-IR, infrared/penetration thermometer, waterproof, folding, incl. batteries and calibration protocol

Part no. 0560 1040



## Accessories

	Part no.
ISO calibration certificate/temperature for air/immersion probes, calibration point -0.4 °F (-18°C)	0520 0061
ISO calibration certificate/temperature for air/immersion probes, calibration point 32 °F (0°C)	0520 0062
ISO calibration certificate/temperature For air/immersion probes, calibration points -0.4 °F; 140 °F (-18°C; +60°C)	0520 0043
ISO calibration certificate/temperature for air/immersion probes, calibration points -0.4 °F; 32 °F; 140 °F (-18°C; 0°C; +60°C)	0520 0001
ISO calibration certificate/temperature infrared thermometers, calibration points -0.4 °F; 32 °F; 140 °F (-18°C; 0°C; +60°C)	0520 0401
ISO calibration certificate temperature Infrared thermometers, calibration points 32 °F; 140 °F (0°C; +60°C)	0520 0452

### Sensor type

### NTC

Measuring range	-58 to 482 °F (-50 to +250 °C)
Accuracy ±1 digit	±1.8 °F (-58 to -22 °F) / ±1 °C (-50 to -30 °C) ±0.9 °F (-22 to 212 °F) / ±0.5 °C (-30 to +100 °C) ±1% of m.v. (remaining range)
Resolution	0.1 °F (0.1 °C)
t <sub>99</sub>	10 seconds (measured in moving liquid)
Measurement rate	0.5 seconds

### Sensor type

### Infrared

Measuring range	-22 to 482 °F (-30 to +250 °C)
Accuracy ±1 digit	±4.5 °F (-22 to -4 °F) / ±2.5 °C (-30 to -20 °C) ±3.6 °F (-4 to 32 °F) / ±2 °C (-20 to 0 °C) ±1.8 °F or ±1.5% of m.v. (remaining range)
Resolution	0.1 °F (0.1 °C)
Measurement rate	0.5 seconds
Lens	10:1 + opening diameter of the sensor: 0.47 in. (12 mm)
Meas. spot marking	2 point laser
Spectral range	8 to 14 µm
Emissivity	0.10 to 1.00 (0.01 steps)
Laser marking	on / off

### General technical data

Measurement value	temperature °C/°F/°R
Measurement mode	Hold or auto hold (immersion probe)
Operating temperature	-4 to 122 °F (-20 to +50 °C)
Storage temperature	-22 to 122 °F (-30 to +50 °C)
Battery type	2 AAA batteries
Battery life	10 hours
Display	LCD, single line, illuminated, with status line (°C, °F, °R, battery, hold/auto hold, min, max, laser, measurement, emissivity)
Protection class	IP65
Dimensions	11.06 X 1.89 X 0.83 in. (probe folded out) 7.01 x 1.89 x 0.83 in. (probe not folded out)
Housing material	ABS / TPE / PC, diecast zinc, stainless steel
Weight	7 oz. (197 g) (incl. batteries)
Warranty	2 years