

Humidity Detector PCE-ITF 5



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Infrared moisture meter for surface temperature, humidity and air temperature / Adjustable emissivity / 12: 1 measuring spot / Circular laser / Color display

The PCE-ITF 5 infrared moisture meter is used to simultaneously measure humidity, temperature and surface temperature. This infrared moisture meter is ideal for detecting heat bridges and incorrect ventilation behavior in homes, houses, etc. The PCE-ITF 5 Moisture Meter has two sensors for this application. The infrared temperature sensor measures the surface temperature in the range of $-50 \dots 550^{\circ}\text{C}$ / $-58 \dots 1022^{\circ}\text{F}$. The internal sensor for the air temperature works in the range between -45 and 60°C / $-49 \dots 140^{\circ}\text{F}$. The humidity is measured by the infrared moisture meter between $0 \dots 100\%$ RH.

The measured values are displayed on a colored LCD. In addition to the visualization of the measured value, the user is visually informed when exceeding or falling below a previously set alarm. For better viewing of the object to be measured, the infrared moisture meter is equipped with a circular laser. The optical resolution of the IR sensor is 12: 1.

- ▶ Infrared temperature measurement up to 550°C / 1022°F
- ▶ Alarm function
- ▶ Adjustable emissivity
- ▶ 12: 1 spot size ratio
- ▶ Measurement of humidity and air temperature
- ▶ Circular laser

Subject to change

Specifications

Measurement function infrared temperature

Measuring range	-50 ... 550°C / -58 ... 1022°F
Resolution	0.1°C / 0.18°F
Accuracy	0 ... 550°C / 32 ... 1022°F: ± (1.5% of rdg. + 2°C / 3.6°F) In the rest of the range: ± 3°C / 5.4°F

Measurement function air temperature

Measuring range	-45 ... 60°C / -49 ... 140°F
Resolution	0.1°C / 0.18°F
Accuracy	0 ... 45°C: ± 1°C / 1.8°F In the rest of the range: ± 1.5°C / 2.7°F

Measuring function air humidity

Measuring range	0 ... 100% rh
Resolution	1% rh
Accuracy	20 ... 80% rh.: ± 4% rh In the rest of the range: ± 5% rh

Emissivity	0.1 ... 1
Optical resolution	12: 1
Spectral sensitivity	8 ... 17 µm
Laser class	2 <1 mW 620 ... 690 nm

Response time	About 0.5 s
Automatic shutdown	After approx. 30 s
Power supply	2 x 1.5V AAA battery
Operating conditions	0 ... 40°C / 32 ... 104°F
Storage conditions	-10 ... 60°C / 14 ... 140°F
Weight	About 108 g / < 1 lb
Dimensions	150 x 94 x 40 mm / 5.9 x 3.7 x 1.6 in

Subject to change