INFRARED THERMOMETER

PCE-IR 810L



- **IR measuring range: -50 ... 550°C / -58 ... 1022°F**
- **Response time: approx. 1 s**
- **Measurement spot ratio (D:S) 8:1**
- **Spectral range: 6 ... 14 µm**
- **Measurement functions: MAX, MIN**
- **Automatic data hold function**
- **Emissivity: 0.95**

The Infrared Thermometer is suitable for fast, non-contact measurement of surface temperatures and can be used, for example, during maintenance and servicing work, in workshops, and for inspecting machines, systems, and technical components. The Infrared Thermometer features an IR measuring range of -50 ... 550°C / -58 ... 1022°F, a resolution of 0.1°C / 0.2°F, and an accuracy of ±2% of reading, depending on the respective measuring range.

With a response time of >1 s and a measurement spot ratio of 8:1, the Infrared Thermometer enables targeted temperature measurement from a specific distance. The spectral range is 6 ... 14 µm, while the emissivity is set to 0.95. MAX and MIN functions are available for evaluating the measured values. An automatic data hold function ensures that the measured value is held after measurement, allowing it to be read conveniently. Power is supplied by a 9V alkaline battery, allowing the device to operate independently of an external power source.

Specification

Infrared temperature	
Measuring range	-50 ... 0 °C
Resolution	0,1 °C
Accuracy	±4 °C
Infrared temperature	
Measuring range	0 ... 550 °C
Resolution	0,1 °C
Accuracy	±2% of reading or ±2°C
Infrared temperature	
Measuring range	-58 ... +32 °F
Resolution	0,1 °F
Accuracy	±7°F
Infrared temperature	
Measuring range	32 ... 1022 °F
Resolution	0,1 °F
Accuracy	±2% of measured value or ±4°F

General technical data	
Measuring functions	MIN, MAX, HOLD
Display Typ	LCD with illumination
Display size	0,98 Inch
Response time	1 s
Automatic power-off	8 s
Measurement Spot	8:1
Laser	Class 2 <1mW
Emissivity	0,95
Spectral range	6 ... 14 µm
Wavelength range	630 ... 670 Nm
Menu language	English (US), English (GB)
Battery/battery	1 x 9 V 9V Block , Alkali-Manganese
Battery capacity	550 mAh
Performance	4,95 Wh
Operating conditions	0 ... 50 °C , 10 ... 90 %RH
Storage conditions	-20 ... 60 °C , 0 ... 80 %RH
Dimensions (L x W x H)	133 x 34 x 78 mm
Weight	94 g