INFRARED THERMOMETER

PCE-IR 97



- **Infrared and probe measurement**
- **Max and Hold functions**
- **Automatic data-hold function**
- **Measurement response time <500 ms**
- **Measuring spot ratio (D:S): 20:1**
- **Spectral range: 8 ... 14 µm**
- **3 LED indicators for temperature ranges**
- **Integrated countdown timer with alarm function**
- **Temperature display in °C or °F**

The Infrared thermometer enables non-contact measurement of surface temperature and measurement of internal temperature using the integrated probe. It is particularly suitable for monitoring food and offers a measuring range of -40 ... 280°C in infrared mode and -40 ... 200°C when measuring with the probe.

The Hold and Max functions are available for checking measured values. With a measurement response time of less than 500 ms and a measuring spot ratio of 20:1, the Infrared thermometer enables rapid measurements from a suitable distance.

The Infrared thermometer also features an integrated countdown timer with an alarm function and a maximum setting time of 10 hours. The temperature can be displayed in either °C or °F. The device is powered by batteries.

The Infrared thermometer therefore combines non-contact surface measurement with direct probe measurement and is suitable for versatile temperature checks in the food sector.

Specification

Infrared temperature	
Measuring range	-40 ... +4 °C
Resolution	0,1 °C
Accuracy	±2 °C
Infrared temperature	
Measuring range	4 ... 65 °C
Resolution	0,1 °C
Accuracy	±1 °C
Infrared temperature	
Measuring range	65 ... 280 °C
Resolution	0,1 °C
Accuracy	±1.5% f.s.
Infrared temperature	
Measuring range	-40 ... +39,2 °F
Resolution	0,1 °F
Accuracy	±3.6 °F
Infrared temperature	
Measuring range	39,2 ... 150 °F
Resolution	0,1 °F
Accuracy	±1.8 °F
Infrared temperature	
Measuring range	150 ... 536 °F
Resolution	0,1 °F
Accuracy	±1.5% of full scale
Temperature sensor	
Measuring range	-40 ... -5 °C
Resolution	0,1 °C
Accuracy	±1°C
Temperature sensor	
Measuring range	-5 ... +65 °C
Resolution	0,1 °C
Accuracy	±1°C
Temperature sensor	
Measuring range	65 ... 200 °F
Resolution	0,1 °F
Accuracy	±1% of Rd
Temperature sensor	
Measuring range	-40 ... +23 °F

General technical data	
Measuring functions	HOLD, MAX
Units	°C, °F
Display type	LCD
Display size	1,4 Inch
Sensor	RTD probe
Response time	500 mS
Automatic power-off	10 s
Measurement spot	20:1
Spectral range	8 ... 14 µm
Dimensions	Probe length: 75 mm
Menu language	English, English (GB)
Protection class (device)	IP65
Power supply	batteries
(Rechargeable) battery	1 x 9 V 9V block , Alkali-manganese
Capacity	550 mAh
Performance	4,95 Wh
Operating conditions	-10 ... 50 °C , 100 % RH
Storage conditions	0 ... 50 °C , 100 % RH
Dimensions (L x W x H)	200 x 52 x 58 mm
Weight	180 g

Resolution	0,1 °F
Accuracy	±1.8°F
Temperature sensor	
Measuring range	23 ... 150 °F
Resolution	0,1 °F
Accuracy	±1.8°F
Temperature sensor	
Measuring range	150 ... 392 °F
Resolution	0,1 °F
Accuracy	±1% of Rd