INFRARED THERMOMETER

PCE-770



- **Fast measurement**
- **Measured value display optionally in °C or °F**
- **Emissivity adjustable: 0.1 ...1.0**
- **Measuring spot ratio: 12:1**
- **Automatic switch-off after 50 s**
- **Alarm adjustable: -50 ... 400°C / -58 ... 752°F**
- **Laser function can be switched off**
- **Battery operation**
- **Compact and lightweight**

The infrared thermometer is a compact, battery-operated measuring device for non-contact temperature measurement in the range from -50°C ... 400°C / -58 ... 752°F. It offers a resolution of 0.1°C / 0.18°F and measures with an accuracy of ± 3°C / 5.4°F in the range -50°C ... 0°C / -58 ... 32°F and ±(1.5% of the measured value + 2°C / 3.6°F) in the range from 0°C ... 400°C / 32 ... 752°F. The measured value display can be switched between °C and °F, and the emissivity can be adjusted in the range 0.1 to 1.0.

An optical temperature alarm can be freely set within the usable measuring range and supports a rapid response when defined limit values are exceeded or not reached. The measuring device has a measuring spot ratio of 12:1 and a fast response time of just 0.5 seconds. Additional functions such as hold and maximum value display facilitate handling and increase practicality. The infrared thermometer switches off automatically after 50 seconds of inactivity to save battery power. The measurement results are shown on a 1.5-inch color LCD display.

The infrared thermometer is used wherever non-contact temperature measurements are useful or necessary - for example in electrical engineering, in heating, ventilation and air conditioning systems, in food inspection, in vehicle maintenance or for monitoring machines and systems.

Specification

Infrared temperature	
Measuring range	-50 ... 0 °C
Resolution	0,1 °C
Accuracy	±3°C
Infrared temperature	
Measuring range	0 ... 400 °C
Resolution	0,1 °C
Accuracy	±(1.5% v.Mw. +2°C)
Infrared temperature	
Measuring range	-58 ... +32 °F
Resolution	0,1 °F
Accuracy	±5.4 °F
Infrared temperature	
Measuring range	32 ... 752 °F
Resolution	0,1 °F
Accuracy	±(1.5% v.Mw. +4°F)

General technical data	
Measuring functions	HOLD, ALARM
Units	°C, °F
Display type	LC colour display with backlight
Display size	1,5 Inch
Response time	0,5 s
Automatic power-off	50 s
Measurement spot	12:1
Laser	Class 2 <1mW
Alarm	optical
Emissivity from/to	0.1 ... 1
Spectral range	8 ... 14 µm
Alarm settings	-50 ... 400 °C
Menu language	English, English (GB)
Protection class (device)	IP20
(Rechargeable) battery	2 x 1,5 V AAA battery , Zinc carbon
Capacity	500 mAh
Operating conditions	0 ... 40 °C , 0 ... 90 % RH
Storage conditions	-10 ... 60 °C , 0 ... 90 % RH
Dimensions (L x W x H)	150 x 45 x 80 mm
Weight	114 g