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Technical Infrared Thermometer PCE-IR 50

**Digital thermometer PCE-IR 50 for non-contact measurement of surface temperatures /
for fixed installation / delivery includes mounting plate / measurements up to +500 °C /
for monitoring of machines from a safe distance**

With the digital thermometer PCE-IR 50, surface temperatures can be measured quickly and easily. The measurement of the digital thermometer is 0 ... +500 °C. The measured temperature is provided as a 4 ... 20 mA standard signal which means that the digital thermometer can be easily integrated into different monitoring systems, including those in different production processes or food storage as well as the monitoring of electronic systems.

The digital thermometer PCE-IR 50 comes with a mounting plate for fixed installation. The digital thermometer must simply be aligned with the heat source to be measured before starting the measurement. The 1.0 m cable of the digital thermometer PCE-IR 50 enables flexible use of the very robust device and even if the user opts for fixed installation, operation in areas which are hard to access will not be a problem at all as installation can be carried out quickly and easily. This type of digital thermometer is recommended when the areas to be measured are under high voltage.

- Measurement range: 0 ... +500 °C
- Accuracy: ± 1.5 °C or ± 1 %
- Optical resolution: 20:1
- Output signal: 4...20 mA standard signal
- For fixed installation (mounting bracket incl.)
- Easy operation and installation
- Short response time (0.5 s)
- 1.8 m cable length
- Robust aluminium case
- IP65 protection class

Technical specifications:

Measurement range	0 ... +500 °C
Accuracy	± 1.5 °C or ± 1 % of measured value, higher value applies
Repeatability	± 1 °C or ± 0.5 % of measured value, higher value applies

Optical resolution	20:1
Output signal	4...20 mA
Spectral sensitivity	8...14 μm
Emissivity	fixed 0.95
Measuring time	0.5 s
Cable length	1.8 m
Power supply	24 VDC
Protection class	IP65
Material	Aluminium
Ambient temperature	0 ... +60 °C
Operating temperatures	-20 °C ... +80 °C
Relative humidity	10 ... 95 %

Delivery contents:

- 1x temperature meter PCE-IR 5
- 1x mounting bracket
- 1x user manual