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Technical Infrared Thermometer PCE-IR 31

PCE-IR 31 is a non-contact digital infrared thermometer or temperature meter for high-temperature applications. Made of stainless steel and designed for use in harsh industrial conditions, the temperature meter features an IP 65 rating. The device measures infrared radiation and converts it into an analog and switching signal. The switching signal can be used as an opener or closer. In addition, the temperature meter shows the measured value on the built-in LED screen.

- Analogue output: Analogue output 0/4 - 20 mA; Scaling of analogue output
- Switching output: Switching point and reset point; Switching function: NC / NO contact; Switch on/switch off delay
- Quick emissivity setting via temperature display
- Damping time constant
- Hold time of peak picker
- Reset to factory default setting
- Key lock
- Display
- Temperature unit °C / °F
- Temperature simulation
- Test function

Technical specifications:

Measuring range: 0 ... +1000 °C / +32 ... +1832 °F

Sensor: Thermopile

Spectral sensitivity: 8 - 14 µm

Focus range: 0.3 m

Spot size: Ø 11 mm

Precision: 0.75% of temp. reading [°C] plus 2.0 K

Response time (t98): ≤ 60 ms

Repeatability: 1 K

Temperature coefficient: 0.1 K/K (for T < 250 °C), 0.04 %/K (for T > 250 °C)

Resolution current output: 0.2 K + 0.03 % of selected range

Resolution display: 0.1 K for T < 200 °C, 1 K for T ≥ 200 °C

Voltage supply: 18 ... 32 V DC

Current consumption: ≤ 50 mA at 24 V DC without load current

Ambient temperature: 0 - 65 °C

Storage temperature: -20 - +80 °C

Permissible humidity: 95% RH max (non-condensing)

Protection: IP 65 according to DIN 40050; Protection class III

Housing material: V2A (1.4305)

Connectivity: M12 thread 5-pin connection, A-coding (DIN EN 61076-2-101)

Weight: Approx. 0.4 kg / 0.89 lb

Delivery contents:

1 x PCE-IR 31 infrared thermometer

1 x user manual