

	4 to 20mA, 0 to 20mA, 0 to 5V (adjustable), Type-J or K sensors temperature sensor head 10 mV / °C alarm relay (via software) optional digital outputs USB, RS-232, RS-485, relay
Inputs	emissivity, temperature compensation, trigger (by software)
Cable length	1m, other lengths can be ordered separately
Consumption	max. 100mA
Power	8 to 36 VDC

General parameters

Ingress protection	IP65 (NEMA-4)
Operating temperature	
- Sensor head	-20 to 180°C
Storage conditions	-40 to 85°C
Operating relative humidity	10 to 95% without condensation
EMI	IEC 801-3, level 3 (maximum cable length of 3m)
Weight	
Sensor head	40g
Electronic component	420g

Technical parameters

Temperature range	40 to 600°C
Spectral range	8.0 to 14 µm
Optical resolution ¹	15:1
Accuracy ²	±1% or ±1°C ³
Repeatability	±0.5% or ±0.5°C ³
Temperature coefficient	±0.05°C / °C or ±0.05% / °C ³
Temperature resolution	0.1°C ⁵
Response time	150ms (95%)
Emissivity	0.100 - 1.000 adjustable in digital mode, by units of 0.001
Functions	maximum, minimum Hold and average value

¹ 90% of energy

² at an operating temperature of 23°C ±5°C

³ shighest value is considered correct

⁴ ISO calibration certificate based on the / DKD measurement

⁵ for a temperature margin of 300K

Delivery contents:

1 x Thermometer PCE-IR 10 with sensor