More Precision. 🔶 optris

optris® CT hot

Precise non-contact temperature measurement from -40°C to 975°C under rough environmental conditions



Environmental rating	IP 65 (NEMA-4)					
Ambient temperature	sensing head: -20 - 250°C					
	electronics: 0 - 85°C					
Storage temperature	sensing head: -40 - 250°C					
	electronics: -40 - 85°C					
Relative humidity	10 - 95%, non condensing					
Vibration (sensor)	IEC 68-2-6: 3 G, 11 - 200 Hz, any axis					
Shock (sensor)	IEC 68-2-27: 50 G, 11 ms, any axis					
Weight	sensing head 40 g (without massive housing) electronics 420 g					
Electrical specifications						
Outputs/analog	channel 1: 0/4 - 20 mA, 0 - 5/10 V,					
	thermocouple J, K					
	channel 2: sensing head temperature (-40 -					
	250°C as 0 - 5 V or 0 - 10 V), alarm output					
Alarm output	Open - collector (24V / 50mA)					
Optional	relay: 2 x 60 V DC/42 V AC _{eff} ; 0.4 A; optically isolated					
Outputs/digital (optional)	USB, RS232, RS485, CAN, Profibus DP					
Output impedances	mA max. 500 Ω (with 5 - 36 V DC)					
	mV min. 100 k Ω load impedance					
	thermocouple 20 Ω					
Inputs	programmable functional inputs for external emissivity adjustment, ambient temperature compensation, trigger (reset of hold functions)					
Cable length	3 m (standard), 8 m, 15 m					
Current draw	max. 100 mA					
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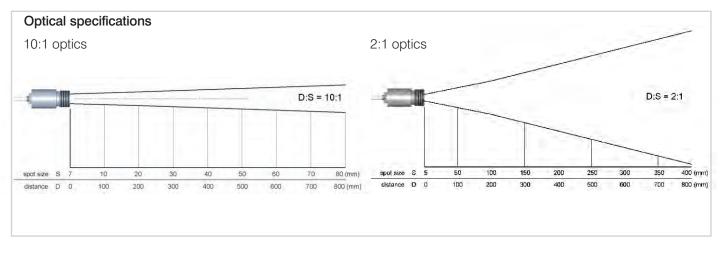
FEATURES

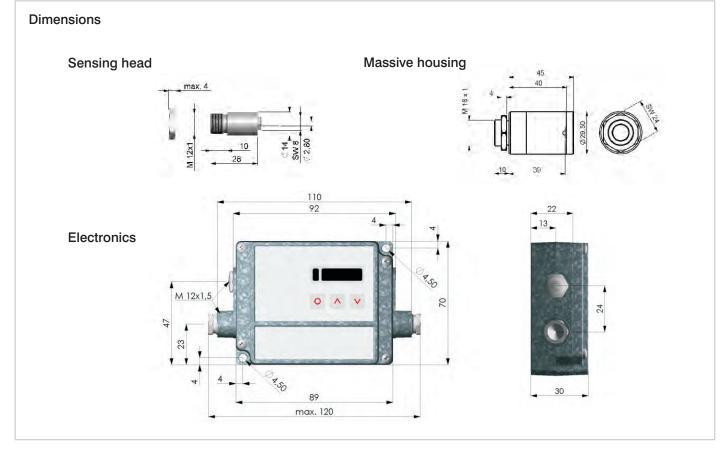
- The new infrared thermometer for hot environmental temperatures up to 250°C without any need of cooling
- A varity of applications in dryers, ovens, heat treatment lines in the metal and glass industry, paper, plastic and textile manufacturing and semiconductor processing in the temperature range of -40°C to 975°C and a response time up from 100 ms
- Selectable 10:1 or 2:1 optics, compact sensor head size
- Narrow beam optics allows oblique aiming to avoid material thickness dependent temperature readings
- Monitor box for programming and temperature display
- Analog outputs 0/4 20 mA, 0 5/10 V , thermocouple type K or J and integrated digital interfaces (optional) Profibus DP, USB, RS232, RS485 or CAN

-40 - 975°C		
$\pm 1\%$ or $\pm 1,5^{\circ}C^{1}$		
$\pm 0.5\%$ or $\pm 0.5^{\circ}C^{1}$		
0.25°C		
100 ms		
0.100 - 1.100		
0.100 - 1.100		
valley hold, average; old function with nd hysteresis		
1		

² at objekt temperatures $\geq 20^{\circ}$ C

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CompactConnect Software

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- Software for easy sensor setup and remote controlling, supports multi tasking

- Graphic display for temperature trends and automatic data logging for analysis and documentation with 1 ms response time
- Adjustment of signal processing functions and programming of outputs and functional inputs of the sensor
- Automatic emissivity adjustment
- The software CompactConnect allows to customize the sensor to application needs of the user

Optris GmbH

Ferdinand-Buisson-Str. 14 13127 Berlin/Germany Tel.: +49 (0) 30 500 197-0 Fax: +49 (0) 30 500 197-10

info@optris.de www.optris.de

Development and sales of portable and stationary infrared measuring instruments.

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Specifications are subject to change without notice. CThot-DS-E2010-07-B