

More Precision.



optris® MiniSight Series



Smart flyweights with high precision glass optics

A wide temperature range of -32 to 530°C, laser aiming and an optical resolution of 20:1 allow technicians to carry out accurate noncontact surface measurements for electrical and mechanical maintenance, HVAC checks, automotive testing and other applications, anywhere that temperature is a factor.

The optris® MiniSight and optris® MiniSightPlus enable you to measure objects as small as 13 mm. Just spot the object, press the trigger and the infrared thermometers will show the temperature in an instant. Functions like MAX and MIN temperature results are shown in the display right away.

optris® MiniSightPlus: OFFSET and HOLD make measurements smart. Object emissivities can be adjusted even after the measurement was taken.

FEATURES

- Precision glass optics for accurate noncontact temperature measurement
- Temperature range from -32 up to 530°C
- Fast 0.3 second scanning of cold and hot spots
- Exact measurement of objects as small as 13 mm in any distance less than 140 mm
- Optical resolution 20:1
- Laser sighting with narrow beam aiming for accurate readings
- Adjustable acoustic HIGH-/LOW-alarm
- Operates under manufacturing conditions as well as in everyday life
- Extremely lightweight

Display

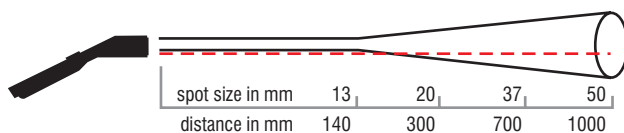


- Current temperature
- MIN-/MAX-readings: current and last
- Symbol for display backlight and laser
- HOLD-function
- MiniSightPlus:**
- HIGH-/LOW-alarm
- Emissivity

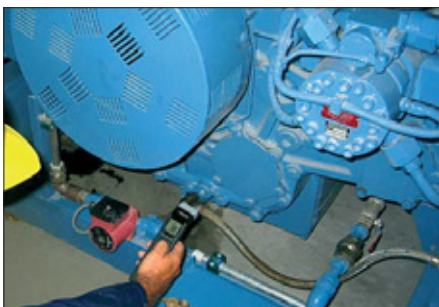
optris® MiniSight Series

Technical data	MiniSight	MiniSightPlus
Temperature range	-32°C to 420°C (-20°F to 788°F)	-32°C to 530°C (-20°F to 980°F)
System accuracy	± 1% or ± 1°C from 0°C to 420°C	± 1% or ± 1°C from 0°C to 530°C
	± 1°C ± 0.07°C/°C from 0°C to -32°C	
Repeatability	± 0.5% or ± 0.7°C from 0°C to 420°C	± 0.5% or ± 0.7°C from 0°C to 530°C
	± 0.7°C ± 0.05°C/°C from 0°C to -32°C	
Optical resolution (D:S)	20:1, 13 mm spot size in ≤140 mm	
Resolution (display)	0.2°C (0.5°F)	0.1°C (0.1°F)
Response time (95%)	300 ms	
Ambient temperature	0°C to 50°C	
Storage temperature	-20°C to 60°C without battery	
Spectral range	8 - 14 μm	
Emissivity	fixed: 0.95	0.100 – 1.000 adjustable
Configurations	Min/Max/Hold/°C/°F	Min/Max/Hold/°C/°F/Offset
Alarm functions	-	Visual and acoustic HIGH-/LOW-alarm
Laser	< 1 mW laser class IIa, laser beam with 9 mm offset	
Weight/dimensions	150 g, 190 x 38 x 45 mm	
Battery	9 V alkaline battery	
Battery life	20 hours with laser and backlight on 50%	
	40 hours with laser and backlight off	
Relative humidity	10 – 95 % RH non condensing, at <30°C ambient temperature	
Standard accessories	-	Soft pouch, wrist strap
Options	Calibration certificate	

Distance-to-Spot-Ratio

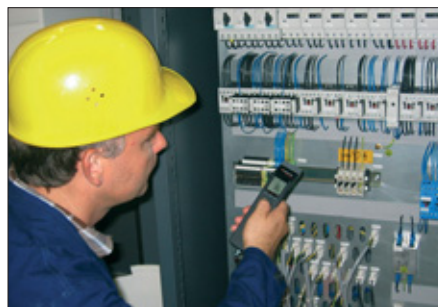


Applications



Mechanical maintenance

Observe temperatures of motors and drives, bearings and valves. Gather temperature data of heating and ventilation components. Check furnace performance and steam distribution systems.



Electrical maintenance

Infrared thermometers are proven time saving tools for predictive maintenance of electrical systems. Check out temperature problems safely with connectors, fuses, electric motors, motor windings, insulations, electrical wiring and electrical cabinets before damages occur.



Automotive testing

Check temperatures of engines and catalytic converters, scan ignition system problems, analyse cooling system restrictions, diagnose air conditioning systems, check tyres and brakes with uneven braking.

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