More Precision.

optris

optris® **MiniSight Series**

Smart flyweights with high precision optics

A wide temperature range of -32 to 760°C, laser aiming and optical resolution of up to 40:1 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.

optris® MiniSightPro: Data memory, integrated USB interface and software Optrisconnect support data storage, data processing and reporting on PC.

FEATURES

- Precision optics for accurate noncontact temperature measurement

- Temperature ranges from -32 up to 760°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 resolutions up to 40:1

- Laser sighting with narrow beam aiming for accurate readings

- Adjustable acoustic HIGH-/LOW-alarm

- USB interface, thermocouple input type K, software Optrisconnect

- Extremely lightweight

Display

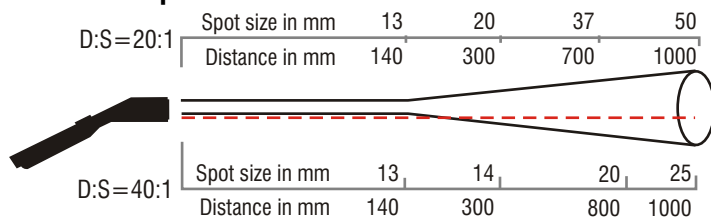MAX 247.1 MIN H

235.0 °C °F

HOLD ε=0.892

- Current temperature
- MIN-/MAX-readings: current and last
- Symbol for display backlight and laser
- HOLD-function

MiniSightPlus/Pro:
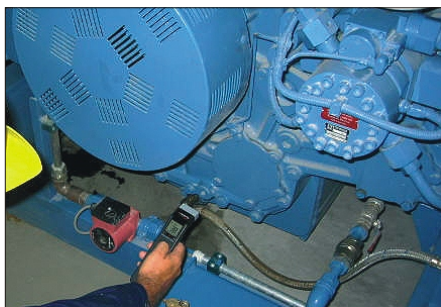- HIGH-/LOW-alarm
- Emissivity

optris® **MiniSight Series**

Technical data	MiniSight	MiniSightPlus	MiniSightPro
Temperature range	-32°C to 420°C (-20°F to 788°F)	-32°C to 530°C (-20°F to 980°F)	- 32°C to 760°C (-20°F to 1440°F)
System accuracy	±1% or ±1°C from 0°C to 420°C	±1% or ±1°C from 0°C to 530°C	±1% or ±1°C from 0°C to 760°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	±0.75% or ±0.75°C from 0°C to 760°C
	± 0.7°C ± 0.05°C/°C from 0°C to -32°C		±0.75°C ±0.07°C/°C from 0°C to -32°C
Optical resolution (D:S)	20:1, 13 mm spot size in ≤140 mm		40:1, 50 mm @ 2000 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/Gain	fixed: 0.95	0.100 – 1.000 adjustable	0.100 - 1.500 adjustable
Configurations	Min/Max/Hold/°C/°F	Min/Max/Hold/°C/°F/Offset	
Alarm functions	-	Visual and acoustic HIGH-/LOW-alarm	
PC Interface, Software, Thermocouple Input	-	-	USB interface, Optrisconnect software, thermocouple element type K
Laser	<1 mW laser class IIa, laser beam with 9 mm offset		<1 mW 650 nm laser class IIa
Weight/dimensions	150 g, 190 x 38 x 45 mm		180 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 D:S

D:S=20:1	Spot size in mm	13	20	37	50
	Distance in mm	140	300	700	1000

D:S=40:1	Spot size in mm	13	14	20	25
	Distance in mm	140	300	800	1000

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.

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

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