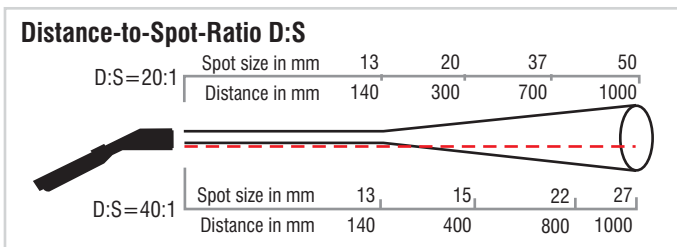


optris® MS Series

Technical data	MS	MSPlus	MSPro
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 up to 140 mm		40:1, 13 mm spot size up to 260 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 – 1.100 adjustable	
Configurations	Min/Max/Hold/°C/°F	Min/Max/Hold/°C/°F/Offset	
Alarm functions	-	Visual LCD alarm colors and acoustic HIGH-/LOW-alarm	
PC Interface, Software, Thermocouple Input	USB interface	USB interface, OptrisConnect Report software	USB interface, OptrisConnect Report software, thermocouple element type K
Laser	<1 mW laser class IIa, laser beam with 9 mm offset		
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, Tripod adapter, Rubber protection boot	



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.