

optris® MS Serie

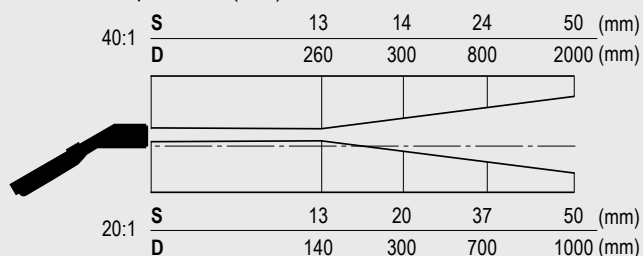
Technical data



Base Model	MS	MSPlus	MSPro
Type	LT	LT	LT
Temperature ranges	-32 °C ... 420 °C	-32 °C ... 530 °C	-32 °C ... 760 °C
System accuracy (at T _{Amb} = 23 ±5 °C)	±1 % or ±1 °C (20 ... 420 °C) ±1.5 °C (19.9 ... 0 °C) ±2.5 °C (-0.1 ... 20 °C) ±3 °C (-20.1 ... 32 °C)	±1 % or ±1 °C (20 ... 530 °C) ±1.5 °C (19.9 ... 0 °C) ±2.5 °C (-0.1 ... -20 °C) ±3 °C (-20.1 ... -32 °C)	±1 % or ±1 °C (20 ... 760 °C) ±1.5 °C (19.9 ... 0 °C) ±2.5 °C (-0.1 ... -20 °C) ±3 °C (-20.1 ... -32 °C)
Repeatability	±0.5 % or ±0.7 °C (20 ... 420 °C)	±0.5 % or ±0.7 °C (20 ... 530 °C)	±0.75 % or ±0.75 °C (20 ... 760 °C)
Optical resolution (D:S)	20:1, 13 mm spot size (D <140 mm)	20:1, 13 mm spot size (D <140 mm)	40:1, 13 mm spot size (D <260 mm)
Resolution (display)	0.2 °C (0.5 °F)	0.1 °C (0.1 °F)	0.1 °C (0.1 °F)
Response time (95 %)	300 ms	300 ms	300 ms
Ambient temperature	0 °C ... 50 °C	0 °C ... 50 °C	0 °C ... 50 °C
Storage temperature	-20 °C ... 60 °C without battery	-20 °C ... 60 °C without battery	-20 °C ... 60 °C without battery
Spectral range	8 – 14 µm	8 – 14 µm	8 – 14 µm
Emissivity	fixed: 0.95	0.100 – 1.100 adjustable	0.100 – 1.100 adjustable
Configurations	Min/Max/Hold/°C/°F	Min/Max/Hold/°C/°F/Offset	Min/Max/Hold/°C/°F/Offset
Alarm functions	-	Visual LCD alarm colors and acoustic HIGH-/LOW-alarm	Visual LCD alarm colors and acoustic HIGH-/LOW-alarm
PC Interface, Software, Thermocouple Input	USB interface	USB interface, optris® Connect report software	USB interface, optris® Connect report software, thermocouple element type K
Laser	<1 mW laser class IIa, laser beam with 9 mm offset	<1 mW laser class IIa, laser beam with 9 mm offset	<1 mW laser class IIa, laser beam with 9 mm offset
Weight/dimensions	150 g, 190 x 38 x 45 mm	150 g, 190 x 38 x 45 mm	180 g; 190 x 38 x 45 mm
Battery	9 V alkaline battery	9 V alkaline battery	9 V alkaline battery
Battery life	40 hours with laser and backlight off, 20 hours with laser and backlight on 50 %	40 hours with laser and backlight off, 20 hours with laser and backlight on 50 %	40 hours with laser and backlight off, 20 hours with laser and backlight on 50 %
Relative humidity	10 – 95 % RH non condensing, at <30 °C ambient temperature	10 – 95 % RH non condensing, at <30 °C ambient temperature	10 – 95 % RH non condensing, at <30 °C ambient temperature
Scope of Supply	9 V alkaline battery, operators manual	9 V alkaline battery, operators manual, wrist strap, pouch, protection boot, adapter for photo tripod, USB interface cable, optris® Connect Report software	9 V alkaline battery, operators manual, wrist strap, pouch, protection boot, adapter for photo tripod, USB interface cable, optris® Connect Report software, thermocouple insertion probe type K

Optics and Display

Distance-to-Spot-Ratio (D:S)



Display (MS)

