
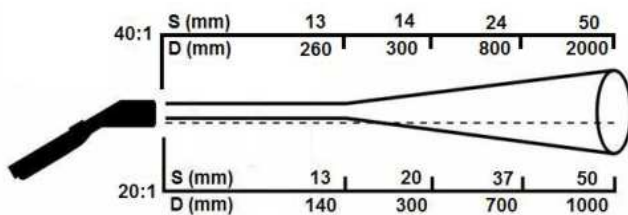


Technical data

Base Model	MS	MS	MS
Type	-	Plus	Pro
			
Temperature ranges	-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 (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 to 50°C	0°C to 50°C	0°C to 50°C
Storage temperature	-20°C to 60°C without battery	-20°C to 60°C without battery	-20°C to 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, OptrisConnect report software	USB interface, OptrisConnect 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, OptrisConnect Report software	9 V alkaline battery, operators manual, wrist strap, pouch, protection boot, adapter for photo tripod, USB interface cable, OptrisConnect Report software, thermocouple insertion probe type K

Optics and Display

Distance-to-Spot-Ratio D:S



Display (MS)

