



thermoMETER MS Intelligent universal infrared thermometer

The MS series offers the most economic IR hand held device. With three different models, it provides the best performance / price ratio for your individual application. With a digital interface data logging and analysis are made really easy.

- Measuring range from -32° to + 760°C
- The new performance standard with spot sizes as small as 1mm
- Laser aiming aid
- Optical resolution 40:1
- Response time 300ms
- USB interface and graphic software with oscilloscope function
- Programmable emissivity
- High and low limits

Optical specifications thermoMETER MS

□ = smallest spot size (mm)

MS / MS Plus	20:1	13	20	37	50
	<i>distance in mm</i>	140	300	700	1000
MS Pro	40:1	13	15	22	27
	<i>distance in mm</i>	260	400	800	1000

Model	MS	MS Plus	MS Pro
Optical resolution	20:1		40:1
Temperature range ¹	-32°C to 420°C	-32°C to 530°C	-32°C to 760°C
Spectral range	8 to 14µm		
System accuracy ^{2,3}	<1% / <1°C (from 0°C to 420°C)	<1% / <1°C (from 0°C to 530°C) <1°C±0.07°C / °C (from 0°C to -32°C)	<1% / <1°C (from 0°C to 760°C)
Repeatability ^{2,3}	<0.5% / <0.7°C (from 0°C to 420°C) <0.7°C±0.05°C / °C (from 0°C to -32°C)	<0.5% / <0.7°C (from 0°C to 530°C)	<0.75% / <0.75°C (from 0°C to 760°C) <0.75°C±0.07°C / °C (from 0°C to -32°C)
Temperature resolution	0.2°C	0.1°C	
Response time	300ms (95%)		
Ambient temperature	0°C to 50°C		
Storage temperature	-20°C to 60°C without battery		
Emissivity	fixed: 0.95	0.1 – 1.1 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	USB interface, IRConnect software	USB interface, IRConnect software, thermocouple element type K
Laser	<1mW laser class IIa, laser beam with 9mm offset		
Weight/Dimensions	150g; 190 x 38 x 45mm		180g; 190 x 38 x 45mm
Battery	9V alkaline battery		
Battery life	20h with laser and backlight on 50% 40h 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	
Optional	certificate of calibration		

¹ adjustable via software

² object temperature >0°C; whichever is greater

³ ± at ambient temperature 23 <5°C

Index	Datum	Uhrzeit	TObj	Min. TObj	Max. TObj	Mittl. TObj	TInt	TEst	Hi-Alarm	Lo-Alarm	Eps	Name
1	14.10.2005	20:58:14	25.8°C	25.8°C	25.9°C	25.8°C	26.0°C	25.7°C	29.7°C	-40.0°C	0.946	P000
2	14.10.2005	20:13:50	26.8°C	26.8°C	29.8°C	27.9°C	27.3°C	.....	28.7°C	-40.0°C	0.946	P001
3	14.10.2005	20:58:24	26.0°C	25.6°C	26.0°C	25.8°C	26.0°C	25.7°C	29.7°C	-40.0°C	0.946	P002
4	14.10.2005	20:58:28	25.7°C	25.6°C	25.8°C	25.7°C	26.0°C	25.8°C	29.7°C	-40.0°C	0.946	LH12
5	14.10.2005	20:58:58	25.5°C	25.5°C	25.8°C	25.6°C	26.0°C	25.9°C	29.7°C	-40.0°C	0.946	P004
6	14.10.2005	20:17:20	599.6°C	29.2°C	600.5°C	538.2°C	27.2°C	.....	28.7°C	-40.0°C	0.947	P005
7	14.10.2005	20:14:06	26.8°C	26.8°C	29.8°C	27.9°C	27.3°C	.....	28.7°C	-40.0°C	0.946	P006
8	18.10.2005	13:16:46	22.3°C	22.0°C	23.0°C	22.4°C	25.6°C	.....	900.0°C	-40.0°C	1.000	P007
9	19.10.2005	17:05:06	23.0°C	21.3°C	23.2°C	22.6°C	26.8°C	.....	900.0°C	-40.0°C	0.999	P008
10	19.10.2005	17:05:12	23.0°C	21.3°C	23.2°C	22.6°C	26.8°C	.....	900.0°C	-40.0°C	0.999	P009
11	19.10.2005	17:05:28	34.6°C	24.8°C	34.6°C	28.8°C	26.8°C	.....	900.0°C	-40.0°C	0.999	P010
12	20.10.2005	13:50:46	24.6°C	24.2°C	26.0°C	24.5°C	27.1°C	.....	30.0°C	-40.0°C	1.000	P011
13	20.10.2005	13:28:25	24.1°C	24.1°C	24.3°C	24.1°C	27.0°C	.....	29.1°C	-40.0°C	0.950	P012
14	20.10.2005	13:51:13	51.1°C	21.0°C	51.2°C	37.3°C	27.1°C	.....	30.0°C	-40.0°C	1.000	P013
15	20.10.2005	13:53:29	21.8°C	21.8°C	21.9°C	21.8°C	27.3°C	.....	30.0°C	-40.0°C	1.000	PP9L
16	20.10.2005	18:06:45	48.7°C	24.3°C	48.6°C	41.2°C	24.5°C	.....	30.0°C	-40.0°C	0.950	P015
17	20.10.2005	18:08:49	-11.1°C	-11.4°C	4.8°C	-10.7°C	24.6°C	.....	30.0°C	10.0°C	0.950	P016

Schließen Datei Öffnen... Sicher als ... Logger Löschen ...

Software IRConnect

(included with MS Pro series)

- Data logging
- Display and recording of temperature graphs
- Modifications of handheld settings

System requirements

- Windows XP, Windows 2000
- USB 2.0
- Hard disc min. 30 MByte
- min. 128 MByte RAM
- CD-ROM drive