

## Datasheet

### Portable IR thermometer Optris P20 1M

OPTP201M



Bitte beachten Sie, dass es sich bei diesem Produkt um ein nicht mehr verfügbares Produkt handelt (EOL). Wir beraten Sie gerne zu einem Ersatzprodukt.



<b>Article ID</b>	OPTP201M
<b>Model</b>	Handpyrometer Optris P20 1M
<b>Temperature range</b>	650°C ... 1800°C
<b>Spectral range</b>	1 µm
<b>Optical resolution (D:S)</b>	300 : 1
<b>Spot size: up from</b>	12 mm
<b>System accuracy</b>	±2°C oder ±0,3% at ambient temperature 23±5°C
<b>Repeatability</b>	±(0,1% of reading +1°C) at ambient temperature 23±5°C
<b>Emissivity</b>	0,10 ... 1,10
<b>Response time</b>	100 ms
<b>weight</b>	1000 g
<b>Interface</b>	USB
<b>Power supply</b>	2x AA Alkaline Batterien
<b>Alarm functions</b>	optisch/akustisch HIGH/LOW Alarm

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<b>Software</b>	optris Connect inclusive
<b>Configurations</b>	MAX / MIN / Scan / HOLD
<b>Data memory</b>	2000 Messwerte
<b>Display</b>	LCD Display 3-farbig
<b>Sighting scope</b>	Two-point laser, Sighting scope
<b>Manual</b>	<a href="#">Bedienungsanleitung Optris P20 Serie</a>

## optris® P20 Series

Infrared thermometers for demanding applications



### Features

- Temperature ranges from 0°C to 2000°C
- High optical resolutions up to 300:1
- Precise aiming with laser and scope sighting
- Adjustable emissivity from 0.100 - 1.000
- Different spectral responses for a variety of advanced applications
- MAX/MIN function and audible and visible HIGH-/LOW-alarm
- USB interface, free Optris Connect Software
- Data logger for 2000 measured values

General Specifications	
Ambient temperature	0 - 50°C
Storage temperature	-20 to 60°C (no battery)
Relative humidity	10 - 95%, non-condensing
Size	264 x 204 x 60 mm
Weight	1000 g

Electrical Specifications	
Output/digital	USB interface
Power	Ni-MH rechargeable battery
Battery lifetime	5 h laser and backlight on 25 h without laser and backlight
AC Adapter	220 VAC, 50/60 Hz

Measurement Specifications	
Temperature ranges	0 to 1300°C (P20 LT) 650°C to 1800°C (P20 1M) 385°C to 1600°C (P20 2M) 1000°C to 2000°C (P20 05M)
Spectral range	8 - 14 µm (P20 LT) 1.0 µm (P20 1M) 1.6 µm (P20 2M) 525 nm (P20 05M)
Optical resolution	120:1 (P20 LT) 300:1 (P20 1M/2M) 150:1 (P20 05M)
System accuracy (at T <sub>amb</sub> = 23 ± 5°C)	±1% or ±2°C (P20 LT) <sup>1)</sup> ±(0,3% of reading +2°C) (1M/2M, 05M)
Repeatability	±0,5% or ±1°C (P20 LT) <sup>1)</sup> ±(0,1% of reading +1°C) (1M/2M, 05M)
Response time	300 ms (P20 LT) 100 ms (1M/2M, 05M)
Emissivity (adjustable)	0.100 - 1.000
Sighting	Double laser class II (<1 mW)
Sighting scope	All models
Signal processing	MAX/MIN, Scan/Hold function
Alarm functions	Audible and visible HIGH/LOW alarm
Data storage	2000 values
LCD backlight	Three color alarm indication
Software	Optris Connect

<sup>1)</sup> whichever is greater

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### Optical Specifications

**P20 LT** D:S = 120:1

∅ spot size 60 | 80 | 100 | 125 mm  
distance 6 | 9 | 12 | 15 m

**P20 1M/2M** D:S = 300:1

∅ spot size 16 | 12 | 24,4 | 40 mm  
distance 1,8 | 3,6 | 5 | 6,75 m

**P20 05M** D:S = 150:1

∅ spot size 22 | 24 | 41 | 62,5 mm  
distance 1,8 | 3,6 | 5 | 6,75 m

### Display

- HIGH-/LOW-alarm (3-coloured display)

### optris Connect - Reporting Software

Index	Date	Time	Temp	Exp
1	20.05.2009	15:15:08	553,0°C	0,992
2	20.05.2009	15:15:08	532,0°C	1,000
3	20.05.2009	15:15:08	767,0°C	1,000
4	20.05.2009	15:15:08	796,0°C	1,000
5	20.05.2009	15:15:08	496,0°C	1,000
6	20.05.2009	15:15:08	496,0°C	1,000
7	20.05.2009	15:15:08	767,0°C	1,000
8	20.05.2009	15:15:08	767,0°C	1,000
9	20.05.2009	15:15:08	563,0°C	1,000
10	20.05.2009	15:15:08	720,0°C	1,000
11	20.05.2009	15:15:08	596,0°C	1,000
12	20.05.2009	15:15:08	613,0°C	1,000
13	20.05.2009	15:15:08	675,0°C	1,000
14	20.05.2009	15:15:08	767,0°C	1,000
15	20.05.2009	15:15:08	766,0°C	1,000
16	20.05.2009	15:15:08	766,0°C	1,000
17	20.05.2009	15:15:08	764,0°C	1,000
18	20.05.2009	15:15:08	656,0°C	1,000
19	20.05.2009	15:15:08	743,0°C	1,000
20	20.05.2009	15:15:08	543,0°C	1,000
21	20.05.2009	15:15:08	747,0°C	1,000
22	20.05.2009	15:15:08	746,0°C	1,000
23	20.05.2009	15:15:08	726,0°C	1,000
24	20.05.2009	15:15:08	496,0°C	1,000
25	20.05.2009	15:15:08	651,0°C	1,000
26	20.05.2009	15:15:08	723,0°C	1,000
27	20.05.2009	15:15:08	743,0°C	1,000
28	20.05.2009	15:15:08	647,0°C	1,000
29	20.05.2009	15:15:08	767,0°C	1,000
30	20.05.2009	15:15:08	767,0°C	1,000

- Setup of parameters
- Download of logger data
- Display and record of temperature trends
- Image based report function
- Runs on Windows 8-tablet PCs
- Software included



Non-contact temperature measurement from a safe distance

Specifications are subject to change without notice.