

optris® P20 05M

High precision infrared thermometer for liquid metals



Features

- Temperature range from 1000°C to 2000°C
- Spectral range of 525 nm for high accuracy temperature measurements on liquid metals
- Innovative double laser sighting for accurate spot size markings in every distance and optical sighting through target telescope
- Capturing of smallest objects of 24 mm in 3.6 m distance
- Internal data memory for 2000 measurements
- USB interface and software optris Connect (graphics and report function, oscilloscope function for 20 measurements per second)
- MAX/MIN/HOLD function and audible and visible HIGH-/LOW-alarm

General Specifications

Ambient temperature	0 - 50°C
Storage temperature	-20 to 60°C (no battery)
Relative humidity	10 - 95%, non-condensing
Size	264 x 203 x 60 mm
Weight	1000 g
Part number	OPTP2005M

Electrical Specifications

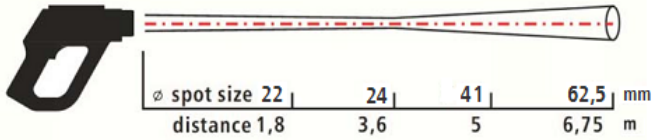
Output/digital	USB interface
Power	Ni-MH rechargeable battery
Battery lifetime	5 h laser and backlight on 25 h without laser and back-light
AC Adapter	220 VAC, 50/60 Hz

Measurement Specifications

Temperature range	1000°C to 2000°C
Spectral range	525 nm
Optical resolution	150:1
System accuracy (at Tamb = 23 ± 5°C)	±(0.3% of reading + 2°C)
Repeatability	±(0.1% of reading + 1°C)
Temperature resolution	0.1 K
Response time	100 ms
Emissivity (adjustable)	0.100 - 1.000
Sighting	Double laser class II (<1 mW) and sighting scope
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

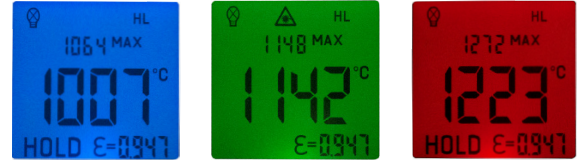
Optical Specifications

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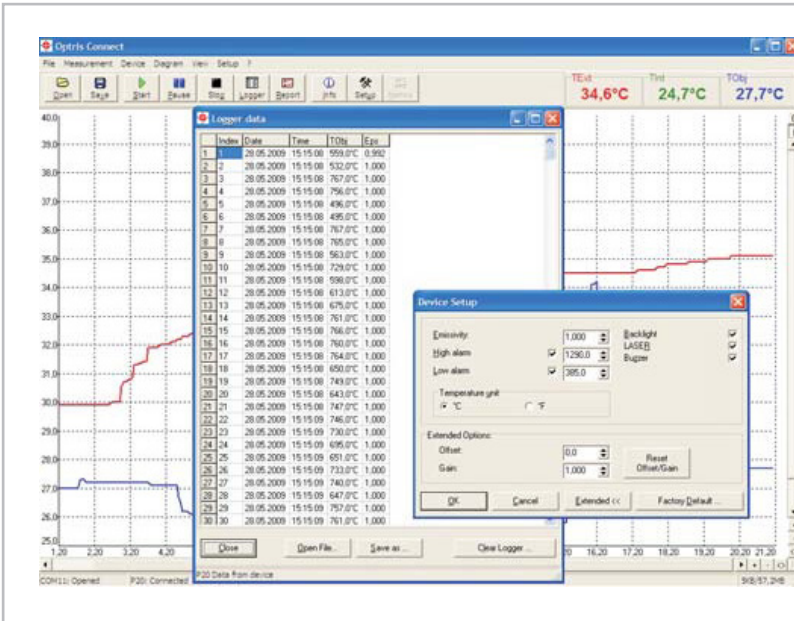
D:S = 150:1

Display



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

optris Connect - Reporting Software



- 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