

The infrared thermometer P880 supports the professional noncontact temperature measurement of objects as small as 1 mm in a temperature range between -35°C and +900°C. This thermometer can be used in characteristic applications like preventive maintenance, quality management, research and development and electronic design. The precision of the crosshair laser sighting indicates the actual s pot size at any distance with absolute accuracy. The high quality optical performance is the distinguishing feature of the P880.

FEATURES

- The new performance standard of infrared thermometers with spot sizes as small as 1 mm
- Crosshair laser sighting marks the actual spot size at any distance
- Temperature range from -35° to +900°C
- Optical resolution 75:1
- Thermocouple input
- USB interface and graphic software with oscilloscope function
- Multi function flip display

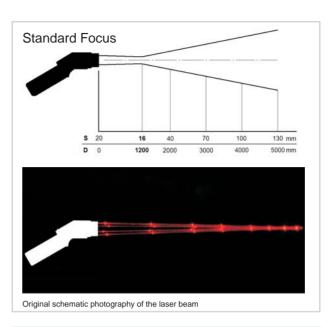


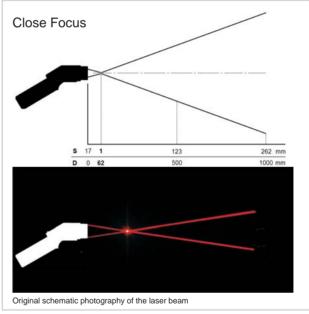
Pro 880

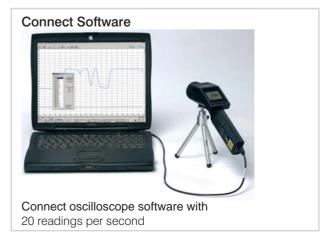
Technical Data

Temperature range	25% to 1000%C (20%F to 4650%F)
Temperature range	-35° to +900°C (-30°F to 1650°F)
Spectral response	8 - 14 μm
Accuracy	±0.75 C of ±0.75% of reading
,	(at ambient temperatures 23 ±5℃ at 20 - 900℃ range)
Temperature coefficient	0.05K/K or ±0.05%/K ¹⁾
	(below 20℃ and above 30℃ ambient temperature)
Temperature resolution	0.1°C
Repeatability	±0.5°C or ±0.5% of reading 1)
Response time	150 ms (95% signal)
Optics	75:1
	16 mm @ 1200 mm
	switchable to focus:
	1 mm @ 62 mm
Minimum spot size	1 mm
·	standard focus: patented crosshair laser
Laser Class II	(crosshair size = IR spot size@any distance)
	close focus: two point laser
	(laser dot size = IR spot size@focus distance)
Emissivity/Gain	0.100 1.100; adjustable
Configurations	MAX/MIN/HOLD/DIF/ AVG/°C/°F
Alarm functions	
Alaim functions	audible and visible HIGH/LOW alarm
Display	LC flip display (horizontal and vertical
D	viewing directions controlled by position sensor)
Display LCD backlight	green and alarm colors (red, blue)
Bar graph display	auto scaling
Ambient temperature	0°C - 50°C
Storage temperature	-30°C - 65°C
Relative humidity	10 - 95% (non condensing)
Weight	420 g
EMI	89/336/EWG
Vibration/Shock	IEC 68-2-6: 3 G, 11-200 Hz, any axis
	IEC 68-2-27: 50 G, 11 ms duration, any axis
Temperature range	
t/c probe input	-35°C to 900°C (-30°F to 1650°F)
Accuracy t/c probe input	t ±0.75°C or ±1% of reading ¹⁾
Interface, data output	USB
Data memory	100 measurement protocols with time
	stamps, customizable 4 digit location
	and material names
	Pro Connect oscilloscope software with 20
Software	·
Dawar	readings per second
Power	Battery 2xAA Alkaline or via USB
Dottom, life time	5 h with laser on and 50% backlight use
Battery life time	10 h with laser on and w/o backlight
	25 h w/o laser and backlight
Tripod mount	1/4-20 UNC (optional)
Standard accessories	USB cable and software
	t/c type K insertion probe
	carrying case, padded pouch, wrist strap,
	batteries

¹⁾ whichever is greater









Thank you for reading this data sheet.

For pricing or for further information, please contact us at our UK Office, using the details below.

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Please note - Product designs and specifications are subject to change without notice. The user is responsible for determining the suitability of this product.