

High Performance Infrared Thermometer with 30:1 FOV, -50 to 1550°C Temperature Range

Description

The OS836-Series high performance infrared thermometer boasts 30 to 1 field of view, -50 to 1550°C temperature range and $\pm 2\%$ accuracy above 0°C. This series device is great for non-contact measurement of surfaces that are far away and very high temperatures. Applications such as molten metals, asphalt, oil, rubber, concrete and many more. The 30:1 field of view, or distance to spot ratio, allows for precise measurement even from a larger distance.

Features

- Min/Max/Avg/Diff readings
- -50 to 1550°C (-122 to 2822°F) temperature range
- 30:1 field of view
- Adjustable emissivity 0.10 to 1.00
- <250 ms response time
- Auto power off feature
- Dual Laser sighting for accurate targeting



Specifications

Temperature Range	-50°C - 1550°C (-122°F - 2822°F)
Accuracy	$\pm 4.0^{\circ}\text{C}$ (7.2°F): -50°C - 0°C (-58°F - 32°F) $\pm 1.5\% \pm 2.0^{\circ}\text{C}$ (3.6°F): 0°C - 500°C (32°F - 932°F) $\pm 2.0\% \pm 2.0^{\circ}\text{C}$ (3.6°F): >500°C (932°F)
Field of View	30:1
Repeatability	1% of reading or 1°C
Response Time	<250 ms (95% response)
Spectral Response	8 – 14 μm
Emissivity	Adjustable 0.10 – 1.00
Operating Temperature Range	0 - 50°C (32 - 120°F)
Relative Humidity	10 - 90% RH, Storage <80% RH
Storage Temperature	-20 - 60°C (-4 - 140°F)
Weight	286g
Record Memory	99 records
Dimensions	7.80 x 4.72 x 2.32 in (198 x 120 x 59 mm)
Power	9V Battery
Estimated Battery Life	16 Hours

Model No.	Description
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OS-836-301	High performance infrared thermometer, 30:1 FOV, -50 to 1550°C
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Comes complete with Type K thermocouple, 9V battery and operator's manual.