Thermometers

Digital Infrared Thermometers

Non-Contact Infrared Thermometers

Description

Infrared temperature measurement is a technology that allows non-contact measurement of surface temperatures by analysing the infrared energy emitted from an object. Essentially, if it's moving, energised or creates friction, it generates heat that can be measured via infrared technology.

DKSH's range of infrared thermometers are ideal in difficult to reach situations, especially where contact could cause threat to user or damage, contaminate or change the temperature of what you're trying to measure. The benefits are; increase in productivity via the speed temperatures can be measured, improved safety especially where moving parts are involved and can help reduce equipment failure through timely temperature readings.

How does it work?

The infrared thermometer captures the infrared energy emitted from the surface of an object and focuses it on the optics within the infrared sensor. At this point the electronic process converts the infrared information into a temperature that is displayed on the LCD screen within milliseconds.

How to get reliable readings

There are three key points that must be understood when attempting to achieve a reliable reading with an infrared thermometer:

1. Optical resolution: the distance between you and what you are trying to measure. The closer the better to reduce external interference.
2. Type of surface: such as the materials and thickness of the casing, oxidation and environmental factors.
3. Spot size: focus your field of view to get a more accurate reading.

Includes protective carry case

Part No. AR982+

Includes tripod

Specifications

Part No.	AR982+
Temperature Range	200°C~2000°C
Accuracy	±2% or ±°C
Distance Spot Ratio	80:1
Emissivity	0.10~1.00
Resolution	0.1 °C(<1000 °C) 1°C (≤1000°C)
Wavelength & Response Time	(0.9~1.7) um&5000ms
Repeatability	±1% o r±1°C
°C/°F Selection	✓
RS232/USB Input Interface:	S232
Power	Ni/Zn rechargeable 2000mA battery
Wireless communication:	Bluetooth

DKSH Australia Pty. Ltd., 14-17 Dansu Court, Hallam VIC 3803, Australia, Ph 1800 010 113, Fax (03) 9554 6677, http://direct.dksh.com.au

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Part No. AR842A+

Part No. AR882+

Part No. AR892+

Part No. AR872D+

Specifications	Multi-Functional Type	High Temperature Type	On-Line Type	Short Wavelength Type
Part No's.	**AR842A+**	**AR872D+**	**AR882+**	**AR892+**
Temperature Range	-50°C~600°C	-50°C~1150°C	-18°C~650°C	200oC~1850°C
Accuracy	±1.5% or ±1.5°C	±2% or ±2°C	±2% or ±2°C	±2% or ±2°C
Distance Spot Ratio	12:1	20:1	50:1	80:1
Emissivity	0.10~1.00 adjustable	0.10~1.00 adjustable	0.1 to 1.00 adjustable	0.10~1.00 adjustable
Resolution	0.1°C (<1000°C)	0.1°C (<1000°C)	0.1°C (<1000°C) 1°C (≥1000°C)	0.1°C (<1000°C) 1°C (≥1000C)
Wavelength & Response Time	(8~14) um & 500ms	(8~14) um & 500ms	500ms & (8~14)um	(900~1700) nm & 500ms
Repeatability	±1% or ±1°C	±1% or ±1°C	±1% or ±1°C	±1% or ±1°C
°C Selection	✓	✓	✓	✓
Data Hold and Store Function	✓	✓	✓	✓
Laser Target Pointer and Backlight Selection	✓	✓	✓	✓
Max/Min/Avg/Difference Function	✓	✓	✓	✓
High & Low Temperature Alarm Setup	✓	✓	✓	✓

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