

HR1000

Long Distance Infrared Thermometer

This special non-contact IR (infrared) thermometer is designed for remote long distance temperature measurement of small target. This infrared thermometer is widely used in electrical industry for measuring the temperature of transmission line and substation's equipment junction. It may also be used in other industries for long-distance surface temperature measurement.



Features

- 1-year warranty
- Real time maximum temperature reading
- Auto power off to save battery power
- LCD backlight for clear readout display
- Selectable °C or °F units
- Low battery indication

applications

Maintenance and Security Monitoring of Substations



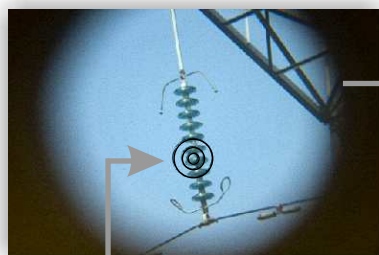
While infrared is a proven predictive maintenance tool, most utilities still use it only for periodic inspection of substations. A 30-90 day cycle is common. However, a number of forces at work in the industry are changing the role of the infrared thermometers:

- Loads on aging equipment are as high as ever. Problems are more likely to go from minor to critical in a short time, so 30-90 days between checks may be inadequate.
- Homeland security implies higher physical security for the grid.
- Replacement costs and lead times for utility equipment are high. A better understanding of equipment health allows more precise timing of expenditures.
- Leaner organizations must improve utilization of maintenance personnel.
- Improved development tools have allowed creation of applications for real-time analysis and communication of infrared thermometers output.

As a result, it is imperative to develop a round the clock remote monitoring of substations with long range infrared thermometers, just as it is becoming feasible and cost-effective to do so. Remote long range infrared thermometer is coming of age in time to answer the utility industry's combined needs for increased substation security against terrorist attack, as well as comprehensive maintenance monitoring for aging hardware installations. In addition, this long range infrared thermometer is ideal for telecom/broadcast facilities, coal piles, hydrocarbon processing plants and similar facilities.



How to use this HR1000?

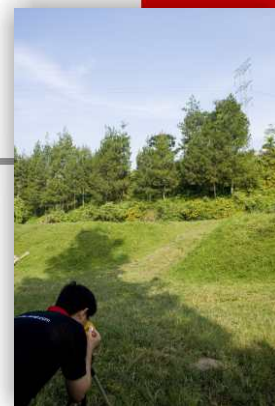


Field-of-view of sighting system

Be sure that the target image is in the field-of-view of sighting system. Have center circle in the ocular superimposed on the target image. Adjust focusing wheel to obtain clear target image. At this point of time target temperature will be displayed.



Your position and target's position — up to 75m



end of *zone*

Specifications

Temperature Range	0°C ~ 300°C
Distance : Spot	1000 : 1
Resolution	1°
Accuracy	≤ 5%
Emissivity	adjustable 0.60 ~ 1.00
Signal Output	4 ~ 20mA
Measuring Distance	10m ~ 75m
Measuring Angle	Azimuth 360°; Angle of pitch -30° ~ 90°
Laser Pointer	Single, Class II, up to 1mW
Power	6 x 1.5V (AA battery)
Size	H230 x D135 x W175 mm
Weight	2700g
Standard Accessories	Tripod • Transport Case • Screw Driver • Operation Manual • Batteries • Warranty Card • Certificate of Product Conformance

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