

IR-01

Low-Cost Infrared Thermometer



- Ergonomic and robust
- Fast and reliable
- Easy to operate
- Operating range -32°C...+500°C
- Adjustable emissivity from 20...100%
- Laser pilot light

Description

Non-contact measurement of temperature with infrared thermometers is a modern, reliable and fast system of measuring temperatures.

The device measures the heat radiation originating from an object. From this, it determines the surface temperature while taking the emission factor of the object of measurement in to regard. The emission factor is determined by the optical properties of the object of measurement and depends on the material and the surface characteristics of the object of measurement. Commonly used values for faint and non-translucent objects of measurement within the infrared range are estimated at approx. 0.95. For extremely reflecting objects the emission factors can be 0.3 to 0.2.

The IR-01 captures the temperature of a measuring spot that gets larger as the distance from the device increases. In this, a Laser pilot light facilitates the orientation of the thermometer and thus the determination of the exact location of measurement

Range of application

Using infrared thermometers becomes necessary, if the object of measurement cannot be or should not be contacted for reasons such as:

- it is too far,
- it is moving,
- the object is under voltage,
- it is a toxic chemical,
- the object of measurement must remain sterile or
- it is too hot to allow measurement with a thermoelement.

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Technical specifications

Operating range:	-32°C500°C (400°C)	Functions:	Normal, max, min, mean value (AVG), deviation from starting
Emissivity: Accuracy:	adjustable from 20100% 1% of measuring value in °C + 1 Digit (2% of measuring value in °C		value (DIF), continuous measuring with locking lever, automatic cut off
Repeatability:	 + 1 Digit for IR-01.1) 0.5% of measuring value in °C + 1 Digit (1% of measuring value in °C + 1 Digit for IR-01.1) 	Display resolution:	0.1 K of -10°C200°C in AVG mode, 1 K in other type of measuring
Temperature	5,	Working temperature:	055°C / 32131°F
coefficient:	0.03% / K (at 23°C)	Cummha	
Response time t90:	0.3 s	Supply:	9 V Battery
		Viewing device:	Laserpilot light (only IR-01.2)
Spectral range:	814 μm (no effect due to water or CO2) Thermopile	Weight:	320 g (including battery)
IN-Detector.	Петторіе	Housing material:	ABS
Display illumination:	automatic	Protection class:	IP 20
Temperature display: Large display: Small display	°C and °F adjustable, 3-digit, 9 mm height 4-digit, 4.5 mm height	Battery life (alkaline batteries):	25 h



Ordering codes



