Vaiśeshika

Digital Infrared Thermometers

Hand Held 94009

FEATURES
➢ Deterioration-free measurement of moving components.
➢ Measurement of dangerous matter. (eg. electrically live parts, chemically aggressive materials etc.)
➢ Measurement in inaccessible locations.
➢ Fully developed laser sight technology.
➢ Very good optical characteristics.
➢ Additional port for K type T/C.

DESCRIPTION
Vaiseshika offers range of Infrared thermometers which have been designed to meet the industrial calibration requirements and temperature measurement needs at competitive cost. The instruments are hand held, compact, rugged and portable.

When it comes to temperature measurement technique where a combination of simplest control and high measurement accuracy is required, infrared thermometers will always be the first choice.

Infrared thermometers allow users to measure temperature in applications where conventional sensors cannot be employed. Specifically, in cases dealing with moving objects (such as rollers, moving machinery, or a conveyer belt), or where non contact measurements are required because of contamination or hazardous reasons (such as high voltage), where distances are too great, or where the temperatures to be measured are too high for thermocouples or other contact sensors.

The critical considerations for any infrared thermometer include field of view, type of surface being measured, and spectral response. Other considerations include response time, environment, mounting limitation, viewing port or window applications, and desired signal processing.

TECHNICAL SPECIFICATION
Display	:	LCD, 3½ Digits
Measurement Ranges	:	-20 to +500°C (infrared)
Using "K" type thermocouple		-50 to 1333°C
Temperature Selection	:	°C / °F
Resolution	:	0.1 to 1°C
Tolerance/Infrared	:	±3% or ±3°C
Range/Tolerance (Type "K")		
-50°C to 0°C	:	± (0.2% + 1°C)
0°C to +200°C	:	±(0.1% + 0.8°C)
200°C to +1333°C	:	± (0.2% + 2°C)
Response time	:	1/s
Ratio of distance to spot	:	8:1 (D/S)
Emission Factor	:	0.1 ... 1.0 adjustable

APPLICATIONS
Temperature measurements on
1) Electrically Live parts
2) Rotating parts
3) Hot resins
4) Liquids
5) Moving objects (such as rollers, moving machinery, or a conveyer belt)

Pistol Grip MaxiTemp 24

FEATURES
Temperature recording & monitoring via PC :
➢ Temperatures measured by model MaxiTemp 24 can be transferred to the PC via RS232, where data are monitored and evaluated graphically or tabular in form.
➢ User specified setting for data memory.
➢ Can be program for alarm limit values, the emissivity, the material, and the number of measurement locations for every measurement point.

TECHNICAL SPECIFICATION

1. Maxi Temp 24 - A3
Measuring Range	:	-30... 900° C
Sighting	:	circle-laser
Optical resolution	:	60/1 (distance/spot)
Emissivity	:	adjustable 0.30 ... 1.00
Resolution	:	0.1° C
Accuracy	:	+/- 1% of reading or +/-2° C
Temperature Units	:	°C, °F (can be switched)
Power supply	:	2 x 1.5 V battery, 7.5 VDC external power supply unit
Dimensions	:	200 x 170 x 50 mm
Weight	:	480 g
Standard equipment	:	Maxi Temp. 24 with graphical display & data-store 100 measurement values

2. Maxi Temp 24 - B3+
➢ Hand Held measuring device for non contact Temperature measurement, integrated LCD-Display.
➢ Low-Bat, Hold function.
➢ Maximum/minimum data store, backlight, laser ON/OFF
➢ Graphic display for 10 measurement results, tripot mount.
➢ Clock/date indication of average and difference, Lo - and Hi - alarm (buzzer)
➢ Internal data store for 100 measuring values.
➢ Connection for external sensor type K, J or NTC
➢ Output : Serial interface RS 232 and 1 m V / degree C

Measuring Range	:	-30... 900 degree C
Sighting	:	3-point-circle-laser
Optical resolution	:	60/1 (distance/spot size)
Emissivity	:	8... 14 um (Universal)
Resolution	:	0.1 degree C
Accuracy	:	+/- 1% of reading or +/-2 degree C
Emissivity	:	0.30... 1.00 adjustable internal material list for Emissivity
Temperature Units	:	degree C / degree F (switchable)
Power supply	:	2 x 1.5 V battery and 7.5 VDC power supply
Dimensions	:	200 x 170 x 50 mm
Weight	:	480 g inclusive battery

Complete with arm strap and service / transport case, Data cable, software, mains adapter, sensor