

# VOLTCRAFT®

## IR-1200-50D USB // IR 1600-50D INFRAROT-THERMOMETER

INFRARED THERMOMETER //  
THERMOMÈTRE INFRAROUGE //  
INFRAROOD THERMOMETER //

**Speichermöglichkeiten für 99 Messwerte**

Optik 50:1  
Messbereich -50 bis 1200 °C bzw. 1600 °C  
USB-Schnittstelle

- N° 10 09 14 -50 bis 1200 °C
- N° 10 09 16 -50 bis 1600 °C



**ENGLISH**

**IR 1200-50D USB // IR 1600-50D USB  
INFRARED THERMOMETER**

// Measurement range -50 to 1200 °C and 1600 °C // Optical system up to 50:1 // USB interface // Special attention has been given in this device to a quick response time, a large temperature range, outstanding accuracy and also the double laser with focus. Temperatures can also be measured via the K type sensor. The infrared thermometer has an USB interface and an integrated data memory for 99 measurement values. The data memory can be read out at the computer with the software you have received, or permanent measurement can be carried out for long-term observations.

**EQUIPMENT:** Double laser for precise marking of the measurement spot // automatic data hold // permanent measurement function // min-/max-/average-/differential measurement function // high-/low-alarm // settable emission degree // K type sensor measurement function // LCD background lighting // saving option for 99 measurement values // USB interface.

**TECHNICAL DATA: RESPONSE TIME:** 150 ms **NUMBER OF SAVED MEASUREMENTS IN THE MEMORY:** 99 **RESOLUTION TEMPERATURE:** 0.1 °C **EMISSION DEGREE:** 0.1 - 1.0 **ACCURACY:** ± 1 % **WEIGHT:** 320 g **MEASUREMENT RANGE TEMPERATURE: IR 1200-50D USB** -50 bis +1200 °C **IR 1600-50D USB** -50 bis +1600 °C **OPTICAL SYSTEM:** 50:1 **VOLTAGE SUPPLY:** 9 V block.

**PACKAGE CONTENT:** Infra red thermometer // 9 V block // K type wire sensor // tripod // storage case // USB cable software CD operating instructions.

**DIMENSIONS:** (W x H x D) 52 x 204 x 155 mm.

## Features:

- IR temp range: -50 to 1200 degreeC
- dual laser targeting
- fast response time: 150ms
- spectral response: 8~14um
- over range indication: LCD will show "---"
- USB interface / data transmission / data logger (LOG)
- 99 memories
- basic accuracy:  $\pm 1.5\%$  of reading
- resolution: 0.1degreeC/F
- distance to spot (D:S): 50:1
- type K input (-50 to 1370 degC)
- Max., Min, DIF, AVG DIF temperature displays
- set high & low alarm
- trigger lock
- automatic datahold
- overrange indication
- LCD backlight
- emissivity: adjustable 0.10-1.0
- auto power off
- polarity: automatic (no indication for positive polarity); minus (-) sign for negative polarity
- laser diode: output <1mW, wavelength 630~670nm, Class 2 laser product
- °C / °F switchable
- operating temp: 0 to 50 degC
- storage temp: -10 to 60 degC
- relative humidity: 10~90% RH for operating; <80%RH for storage
- power supply: 9V battery NEDA 1604A or IEC 6LR61, equivalent

## type K temp range: -50 to 1370 degC

- accuracy: -50 to 1000 degC:  $\pm 1.5\%$  of reading  $\pm 3\text{degC}$   
1000 to 1370 degC:  $\pm 1.5\%$  of reading  $\pm 2\text{degC}$
- display resolution: 0.1degC for <1000; 1degC for >1000
- repeatability: -50 to 1370 degC:  $\pm 1.5\%$  of reading

## IR temp range

- -50 to 1200 degC
- D:S = 50:1
- display resolution: 0.1 degC for <1000; 1 degC for >1000
- accuracy (ambient operating temp of 23 to 25 degC)
  - 50 to -20degC:  $\pm 4.5\text{degC}$
  - 20 to 20 degC:  $\pm 3.0\text{ degC}$
  - 20 to 500 degC:  $\pm 1.0\%$   $\pm 1.0\text{ degC}$
  - 500 to 1200 degC:  $\pm 1.5\%$
- Repeatability
  - 50 to 20 degC:  $\pm 1.3\text{ degC}$
  - 20 to 1200 degC:  $\pm 0.5\%$   $\pm 0.5\text{ degC}$