



# **VOLTCRAFT®**

## **VOLTCRAFT® - TOP PERFORMANCE IN EVERY WAY**

“For more than 25 years, our product range has been dynamically adapting to the constant changes in the industry. We commit to offering first-class quality to our customers while delivering an excellent cost-performance ratio. This philosophy remains the cornerstone of Voltcraft’s success.”

# **IR 550-10S** **INFRARED THERMOMETER**

**CE**

VERSION 09/09

**N° 10 09 18**

This thermometer is suitable for non-contact temperature measurement. The device has a very fast response time, a large measurement range and a robust, pistol-shaped casing. As a special feature, the backlight of the LCD turns red if the measured temperature exceeds the adjusted threshold.

## **HIGHLIGHTS**

**Optics 10:1 //**

**Measuring range -50 °C to +550 °C  
(-58 °F to +1022 °F) //**

**Focal point laser //**

**Data hold //**

**Adjustable emission ratio //**

**Max-value display //**

**°C/°F selection //**

**Adjustable alarm values //**



# GENERAL SPECIFICATIONS

**RESPONSE TIME:** < 1 s **EMISSION RATIO:** adjustable from 0.1 to 1.0 **BASE ACCURACY:** ± 2 % **OPTICS:** 10:1 **POWER SUPPLY:** 9 V block battery **WEIGHT:** 180 g **DIMENSIONS:** 82 x 41.5 x 160 mm

## TECHNICAL DATA

Spectrum:	8 - 14 µm
Resolution:	0.1 °C/°F
Laser:	Rated power < 1mW, laser class 2, Wave length 630 - 690 nm
Operating temperature:	0 °C to +50 °C / +32 °F to +122 °F
Operating humidity:	10 to 90 % RH
Storage temperature:	-10 °C to +60 °C / +14 °F to +140 °F
Storage humidity:	10 to 80 % RH

**Accuracy (for ambient temperatures of 23 °C to 25 °C, emission level 0.95)**

Temperature measuring range	Accuracy
-50 °C to -20 °C / -58 °F to -4 °F	± 5 °C / ± 9 °F
-20 °C to +550 °C / -4 °F to +1022 °F	± 2 % of the measured value ± 2 °C / ± 4 °F

### Surface emissivity

Measured surface	Emissivity
Asphalt	0.90 to 0.98
Brick	0.93 to 0.96
Cement	0.96
Ceramic	0.90 to 0.94
Charcoal (powder)	0.96
Chromium oxides	0.81
Cloth (black)	0.98
Concrete	0.94
Copper oxides	0.78
Glass	0.90 to 0.95
Human skin	0.98
Ice	0.96 to 0.98
Iron oxide	0.78 to 0.82

Measured surface	Emissivity
Lacquer	0.80 to 0.95
Lacquer (matte)	0.97
Lather	0.75 to 0.80
Marble	0.94
Mortar	0.89 to 0.91
Paper	0.70 to 0.94
Plaster	0.80 to 0.90
Plastic	0.85 to 0.95
Rubber (black)	0.94
Sand	0.90
Soil	0.92 to 0.96
Textiles	0.90
Water	0.92 to 0.96

→ *The emissivity values shown in the above table are approximate. Several parameters, e.g. geometry, surface quality, may affect the emissivity of an object.*

## PACKAGE CONTENT

Infrared thermometer // Protective bag // 9 V block battery // Operating instructions

This data sheet is published by Voltcraft®, Lindenweg 15, D-92242 Hirschau / Germany, Phone +49 180 586 582 7. The data sheet reflects the current technical specifications at time of print. We reserve the right to change the technical or physical specifications.