

# HEITRONICS

Infrarot Messtechnik

Systems and Solutions for  
Non-Contact Temperature Measurement  
from  $-100\text{ }^{\circ}\text{C}$  to  $3000\text{ }^{\circ}\text{C}$



# Good reasons to have HEITRONICS as your partner

HEITRONICS is a leading manufacturer of Non-contact Temperature Instruments.

## World-Wide Representation

Local Partners in Europe, America and Asia offer support and services to you and your customers.

## Turnkey Service

We will work with you through all phases of your application, from selecting the best instrument to custom installation to system deployment.

## Comprehensive service

Our local service centers provide full support and maintenance services, including repair and calibration of your infrared measuring instruments.

## Quality system of the highest level

We require 100 % adherence to specifications during final inspection and burn-in tests for each instrument. Calibration traceability to the national metrological institute, PTB, ensures high product quality.

## Products for any application

From heavy industry to research, food technology to medicine, glass production to environmental technology, our instruments work in the production, processing and development of materials and products in every industry.

## Custom solutions

We adapt our devices to your requirements. We carefully analyze your manufacturing process to establish optimal measuring conditions, and supply both hardware and software solutions for your application.

## Low maintenance cost

Our robust design, long-term stability and drift-free measurement process ensure long service life.

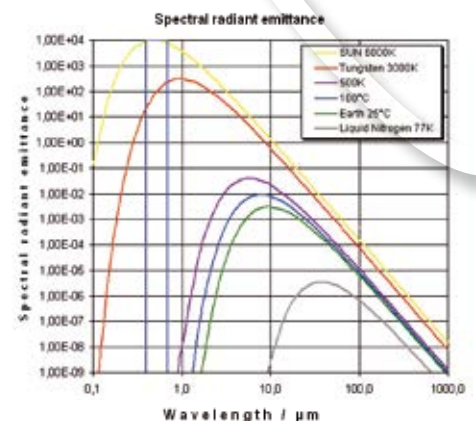
**MTBF of 100,000 h**  
Long-life



**High End**  
Accuracy 0.10 °C



**Made in Germany**  
100 % Quality



# Lead using leading edge technology

A complete and proven line of Infrared Temperature Measurement Instruments.

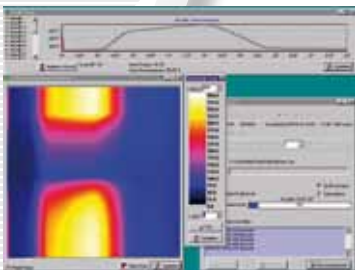
## Fast Measurement

response times from 5 ms  
starting as low as 0 °C



## Heavy Duty Housings

for harsh environments



## Thermography

for continuous industrial  
operation

## Custom Solutions

for any application

### Long-term stable measurements

High-quality optics and infrared coatings, combined with semiconductor and pyroelectric detectors and digital signal processing, guarantee excellent long-term stability of your measurement.

### Drift-free measurement

The HEITRONICS chopped radiation method eliminates thermal drift and allows fast process changes without break-in periods or stabilization time.

### Long-life devices

Our instruments have a MTBF of 100,000 hours, corresponding to 11 ½ years of life.

### Fast measurement at low temperatures

With response times from 5 ms at temperatures as low as 0 °C, fast processes can be measured and controlled.

### Robust design

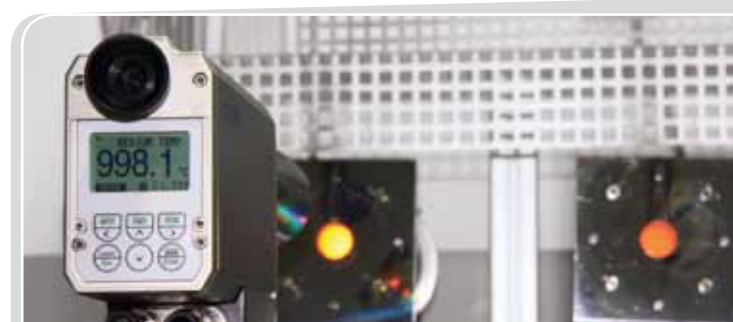
Stainless steel housings and protective/cooling jackets can handle aggressive and harsh environments.

### Calibration for high-level requirements

Our instruments are calibrated in our laboratory to the highest accuracies, using over 25 blackbody calibration sources from -70 °C to 3000 °C.

### Products and systems always on the leading edge ...

... by continual improvement and our use of new technologies.



# A complete and proven Product line

Products for every application, with service, maintenance and calibration available.

## ■ Compact Series



IR Thermometer CT09 Series and Temperature Sensor MTS05 II

## ■ Highly Versatile and Heavy Duty IR Thermometers



KT, CT Series; 15 different spectral ranges > 2 microns for thin glass, food, plastic film, roadway, environmental, agriculture and more

## ■ Dual- and Multi-Wavelength Thermometers



KT and CT Series for Semiconductor and Metal Applications

## ■ High Performance Infrared Thermometers



KT19 Series, TRT (Transfer Radiation Thermometer) and Multi-Spectral Thermometer: highest accuracy

## ■ Process Thermal Imaging



LineScanner and Cameras (fixed and portable)

## ■ Temperature Calibrators



Blackbody calibration sources (ME and SW Series), up to 60 mm cavity diameter or up to 1000 °C; ...

## Systems and Solutions

### ■ for Combustion Gas Temperature



KT19.69 approved by German TÜV for incinerators

### ■ for Material Research and Calibration



KT19.XX II with up to 15 spectral ranges in one unit Transfer Radiation Thermometer (TRT)

### ■ for Highly Reflective Metal Strip and Rolls



LT13EB, LT15EB: temperature measurement starting at 20 °C, emissivity booster

### ■ for Steel, Aluminum, Copper, Silicon Applications



CT18 and fiber optic version CT18LL Series

### ■ Application Software



ScanPerfect for process imaging and LineScanner profiles; EasyMeas for thermometer data logging

### ■ Temp. Calibrators Temperature Display



...portable: SW15 ≤ 121 °C

Display, alarm, signal conditioning, analog/serial outputs and more.

Visit our website for more information, interesting facts and downloads about "Non-contact temperature measurement from -100 °C to +3000 °C".

**MTS** MTS Messtechnik Schaffhausen GmbH  
Mühlenstrasse 4, CH-8260 Stein am Rhein Telefon  
+41 52-672 50 00  
Telefax +41 52-672 50 01  
www.mts.ch, e-mail: info@mts.ch



Messen Prüfen Automatisieren [www.mts.ch](http://www.mts.ch)