

# 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.

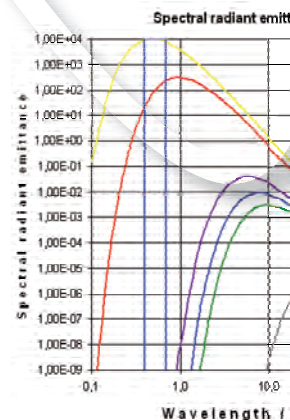
## Low maintenance cost

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

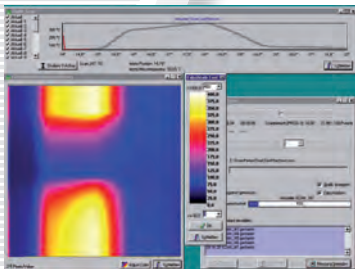
A complete and proven line of Infrared Temperature Measurement Instruments.

## Fast Measurement

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



**Heavy Duty Housings**  
for harsh environments

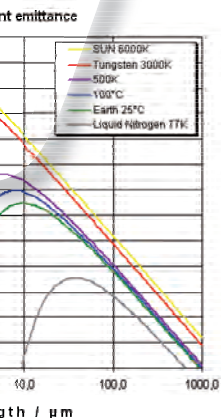


## Thermography

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.

Systems and Solutions

## ■ Compact Series



IR Pyrometers CT09 series and Temperature Sensor MTS05II

## ■ Spectral Pyrometers



Universal Specialists (KT series), Heavy Duty/Chemical & Food (CT series), Metal: Aluminum, Steel, Copper (PRO series)

## ■ Dual- and Multi-Wavelength Pyrometers



KT, CT and PRO series for Semiconductor and Metal Applications

## ■ High-End Instruments



KT19 series: highest accuracy and unparalleled specifications

## ■ Thermography



LineScanner and Cameras (fixed and portable)

## ■ Temperature Calibrators



Blackbody calibration sources (ME and SW series), both stationary and portable

## ■ for Combustion Plants



(KT19.69) suitable for Incineration Plants (approved by German TUV)

## ■ for Material Research and Calibration



(KT19.XXII) with up to 7 spectral ranges in one unit  
**Transfer Radiation Thermometer (TRT)**

## ■ for Bright Metals



(LT15EB) temperature measurement starting at 20 °C

## ■ for Steel, Aluminum, Copper, Silicon



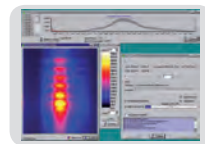
PRO series and CT18LL series for temperature measurement starting at 65 °C

## ■ Temperature Display



MS series - with excitation voltage for all Infrared Pyrometers

## ■ Application Software



for Infrared Pyrometers, LineScanner and Infrared Cameras

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