

Non-Contact Temperature Measurement

DIGITAL HIMMEL INFRARED –PYROMETER

Temperature range 50 to 1000°C (122 - 1832°F)

Series KTRD 2300



HIMMEL – Infrared – pyrometer can also assist you to monitor your heating processes, ensuring a uniform standard of quality for your products.

Temperature control during production process 5 msec.
compact units - Infrared – measuring transducer and electronic process unit in one case with light beam aiming device or optical viewfinder, focusable optic, serial interface, limit output

Mainly for fast warming processes the contactless temperature measurement is suitable.
 The series KTRD 2300 are digital part radiation pyrometer with vario-objective in compact structure likewise suitable for industry, research and laboratory.
 With the integrated light beam aiming device (green LED or Laser) resp. viewfinder an adjusting of the pyrometer to the measuring object is very easy.
 The temperature linear analog output signal 0/4 up to 20 mA is available for measuring- and controlling purposes.
 The simultaneous using of the serial interface with the software IR-LOG enables the data detection, graphical representation and the parameter settings of the pyrometer.

Examples for applications:

steel, iron, non-ferrous metal, wires, ceramics, rolling, induction heating, soldering, welding, transforming, vacuum furnace etc.

Temp. measuring ranges:

Nr.	Measuring ranges
1	50 - 400°C
2	70 - 550°C
3	100 - 700°C
4	150 - 1000°C

Technische Daten:

measuring ranges	50 - 1000°C (122 - 1832°F)
Spectral range	2,3 µm
Response time	5mS – 0,5 mS
Measuring uncertainty	1% ±1°C
Reproducibility	0,1% vom Messwert
Emission factor	100 – 10%
Working temperature	0 – 50°C
Stock temperature	-10°C -+70°C
Temperature sensitivity	0,05 % / °C
Humidity tolerance	35 – 85 % RF
Analog output	0/4 – 20 mA
Interface	RS232 isoliert
Software IR-LOG	data recording
Operating voltage	DC 24 V ± 10%
	AC 24 V ± 10 %
Current consumption	aprox. 300 mA
Unit connection	plug-connector
Dimensions (HxWxD)	54x54x147 mm
Weight	0,6 kg (1,32 lbs)
Protection grade	IP 65

Objectives: for accommodation to the measuring application an extensive selection of objectives are available

Optional:

Digital process unit

AED 1012

electrical assembly

- Digital display (built in-execution)
- Contact outputs
- PC-Box (USB – connection set)
- power supply 100-270VAC - 24 VDC

mechanical assembly

- Execution in cooling case
- Blowing device
- Mirror 90°
- Mounting parts