Extreme high Stability - using Chopped Radiation Method

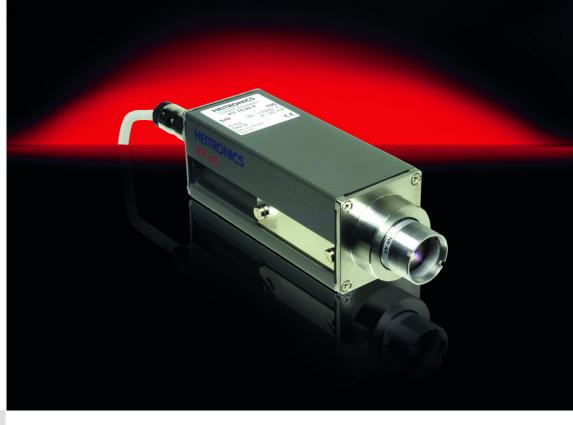
Very high Resolution 0.03°C

Fast Response Times from 5 ms on low Temperatures

Wide Temperature Ranges -50°C to 3000°C

Features

- Focus on application – all spectral ranges from freeze drying to molt
- Stainless steel cooling and protecting housing up to 320°C
- Fast target measurement
- Focus laser marks field of view
- Very high linearization accuracy 0.02K
- User interface software for complete programming and measurement
- Wide range of accessories e.g.
- Vacuum tight lenses



Infrared Radiation Pyrometer



Non Contact Temperature Measurement in the most Advanced Technology



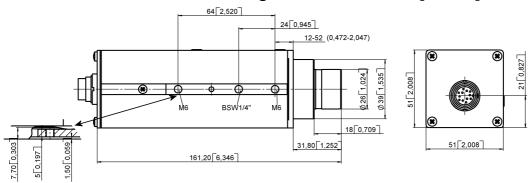
Infrared Radiation Pyrometer KT15 IIP Series at a Glance

		Select
Application / Material	Model / Type	Temperature Range / °C
Metal / Metal oxide / Ceramic		
Metal / metal oxide / ceramic	KT15.01 IIP	250 - 2500
	KT15.02 IIP	140 - 2500
Thin Plastic Film		
/ oil / paint	KT15.21 IIP	80 - 400
PE, PP, PVC,	KT15.23 IIP	0 - 400
PET, PA,	KT15.24 IIP	0 - 400
PTFE, PET, PVC,	KT15.25 IIP	0 - 400
Natural material, Paint, Chem	nicals, Rubber	
Paper, textiles, ceramics, asphalt, wood, electronic components, building materials, food,	KT15.81 IIP	0 -1000
	KT15.82 IIP	-30 - 1000
better NETD	KT15.83 IIP	0 - 500

tic	on Guide			
	Application / Material	Model / Type	Temperature Range / °C	
	Incinerator			
)	Burning gas temperature	KT15.69 IIP	0 - 1700	
0	Through flames and gas	KT15.41 IIP	250 - 2500	
	Glass / Quartz			
0	Glass volume	KT15.01 IIP	250 - 2500	
0	Glass volume	KT15.41 IIP	250 - 2500	
0	Surface	KT15.42 IIP	100 - 2500	
0	Thin material / in furnace	KT15.43 IIP	0 - 1400	
	Meteorological, biological n	neasurement		
0	Meteorology	KT15.85 IIP	-25 - 200	
	Special applications			
0	Temperature of hot gases	KT15.6x IIP	400-2500	
0	All materials	KT15.99 IIP	-50 - 3000	

General Specifications				
Temperature range	-50°C 3000°C, depends on model, see table above			
Temperature resolution (NETD)	Depends on model, measuring temperature and response time, typical value 0,06°C			
Accuracy (uncertainty)	± 0.5°C plus 0.7% of the difference between target and housing temperature			
Long term stability	Better than 0,01% of the absolute measured temperature per month			
Field of view diameter	From Ø 0,7mm, depends on detector type and lens			
Field of view marking	Focus laser, built-in: aims the size of the field of view in focal distance			
	Pilot laser, built-in: aims the center of the field of view in any distance			
	Laser pointer as accessory for non transparent lenses			
	More mechanical pointers are available			
Laser function	Time out or permanent operation, while flashing or continuous marking			
Spectral responses	Depends on model			
Programmable Functions via serial interface	Emissivity, Environmental temperature, Analog output, Function of analog output, Response time, Temperature unit, Valley/ Peak-picker with decay function, Laser operation			
Emissivity	0,100 to 1,000 in 0,001-steps			
Response time	from 5 ms to 600 s (0.005, 0.01, 0.03, 0.1, 0.3, 1, 3, 10, 30, 60, 120, 240, 360, 480, 600 s)			
Temperature unit	°C, °F or K			
Analog output (Hardware)	4 scalable output signals , temperature linear 0-10V, 0-1V, 0-20mA or 4-20mA, Zoom function for temperature span > 50 K			
Analog output (Functions)	Actual value, Maximum value or Minimum value			
Serial interface	RS232-Interface, bi directional, 9.600 to 115.000 bps, for programming and data transfer			
Thermal switch	Monitors the instrument temperature			
Power requirements	22-30 VDC or 24 VAC ± 10%, 48-400 Hz			
	<u><</u> 150 mA @ 24 VDC			
Permissible operating temperature	-20°C 60°C			
Storage temperature	-20°C 70°C			
Protective class, Weight	IP65 (IEC), NEMA 4 equivalent, 1.3 kg			
Housing	Stainless steel and aluminum			

Housing Dimensions in mm [inches]



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