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



- 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

KT1511P

Non Contact Temperature Measurement in the most Advanced Technology



Infrared Radiation Pyrometer KT15 IIP Series at a Glance

Selection Guide

Model / Type	Temperature
	Range / °C
;	-
KT15.01 IIP	250 - 2500
KT15.02 IIP	140 - 2500
KT15.21 IIP	80 - 400
KT15.23 IIP	0 - 400
KT15.24 IIP	0 - 400
KT15.25 IIP	0 - 400
nicals, Rubber	
KT15.81 IIP	0 -1000
KT15.82 IIP	-30 - 1000
KT15.83 IIP	0 - 500
	KT15.01 IIP KT15.02 IIP KT15.21 IIP KT15.23 IIP KT15.24 IIP KT15.25 IIP Aicals, Rubber KT15.81 IIP

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

General	Spec	ificat	ions

Temperature range
Temperature resolution (NETD)
Accuracy (uncertainty)
Long term stability
Field of view diameter

Field of view marking

Laser function Spectral responses **Programmable Functions via serial**

interface **Emissivity** Response time

Temperature unit Analog output (Hardware)

Analog output (Functions) Serial interface

Thermal switch Power requirements

Permissible operating temperature Storage temperature

Protective class, Weight

Housing

-50°C ... 3000°C, depends on model, see table above

Depends on model, measuring temperature and response time, typical value 0,06°C

± 0.5°C plus 0.7% of the difference between target and housing temperature

Better than 0,01% of the absolute measured temperature per month

From Ø 0,7mm, depends on detector type and lens

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

Time out or permanent operation, while flashing or continuous marking

Depends on model

Emissivity, Environmental temperature, Analog output, Function of analog output, Response time, Temperature unit, Valley/ Peak-picker with decay function, Laser operation

0,100 to 1,000 in 0,001-steps

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)

°C, °F or K

4 scalable output signals, temperature linear

0-10V, 0-1V, 0-20mA or 4-20mA, Zoom function for temperature span > 50 K

Actual value, Maximum value or Minimum value

RS232-Interface, bi directional, 9.600 to 115.000 bps, for programming and data transfer

Monitors the instrument temperature

22-30 VDC or 24 VAC ± 10%, 48-400 Hz

150 mA @ 24 VDC

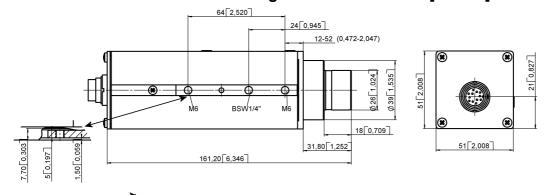
-20°C ... 60°C

-20°C ... 70°C

IP65 (IEC), NEMA 4 equivalent, 1.3 kg

Stainless steel and aluminum

Housing Dimensions in mm [inches]



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