

CT11 Series

Infrared Radiation Thermometer

- Temperature ranges for 0 to 2000 °C (32 to 3632 °F)
- Response times ≥ 50 ms
- Target size ≥ 1 mm (0.04 in.)
- ± 0.1 °C temperature resolution capability
- Rugged stainless steel housing, IP68

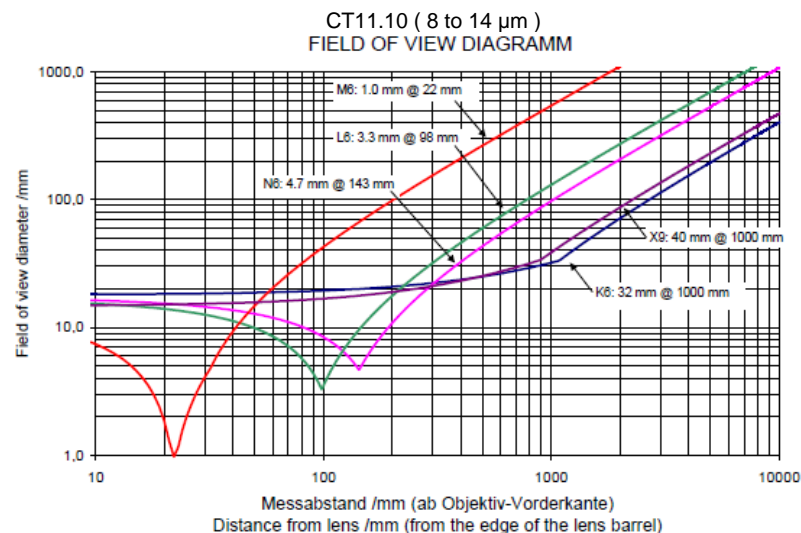
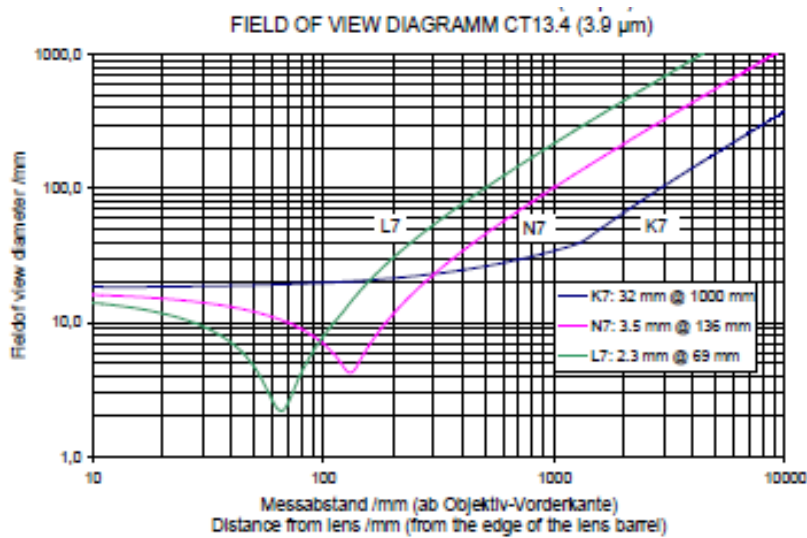
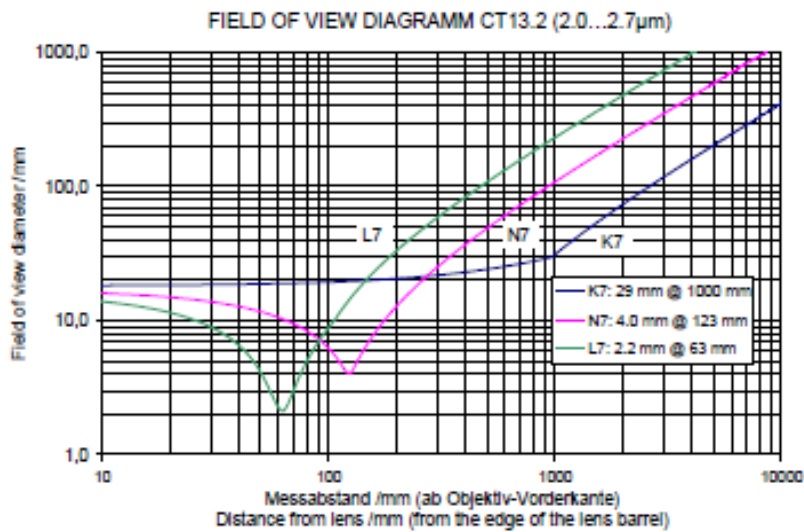


GENERAL SPECIFICATION

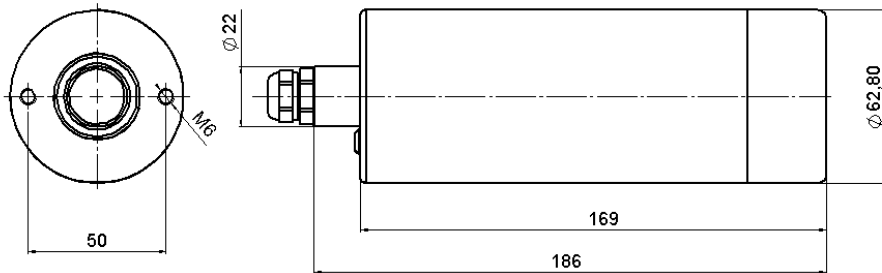
Accuracy:	0.8 °C (1.4 °F) \pm 0.8% of difference between target and thermometer temperature
Long term stability:	Better than 0.01% of the absolute measured value per month
Emissivity:	0.100 to 1.000 , in 0.001-steps
Response time:	50 ms to 10 s (0.05, 0.1, 0.3, 1, 3, 10 s)
Temperature unit:	°C, °F or K
Analog output:	0 - 20 mA or 4 - 20 mA, scalable span ≥ 50 °C (100 °F), Actual, max or min value, 12 bit resolution
Serial interface:	RS232, 9.6 to 57.6 kb
Operating voltage:	10.5 to 30 VDC or 12 to 24 VAC (± 10 %) ; ≤ 2.5 W
Permissible ambient temperature:	-25 to 60 °C (-13 to 140 °F); ≤ 300 °C (570 °F) with WK15 Protective Cooling Housing
Storage temperature:	-40 to 85 °C (-40 to 185 °F)
Protection class:	IP68 (protects up to immersion-like conditions in water – exceeds NEMA4X)
Housing:	304 stainless steel
PC-based Software:	EasyConfig: Software for parameter setting (supplied with each CT11) EasyMeasure: EasyConfig features plus data recording, storage & evaluation (option)
Programmable functions via RS232 interface:	Emissivity, background temperature, analog output scale & function, response time, temperature unit, valley/peak picker with decay function. Optional trigger input function

<u>Application / Material</u>	<u>Model / Spectral Range</u>	<u>Temperature Range / °C</u>
Metals, Combustion Zone temperature for PetroChem industry..	CT11.2 / 2 to 2.7 μ m	500 ... 2000
Glass & Quartz volume – sub surface.....	CT11.4 / 3.9 μ m	200 ... 1000
Paper, Thick Plastics, Rubber, Textiles, Asphalt, Wood, Agriculture, Sea Surface, Ice & Ground, Food etc.....	CT11.10 / 8 to 14 μ m	0 ... 500

Field of View Diagrams

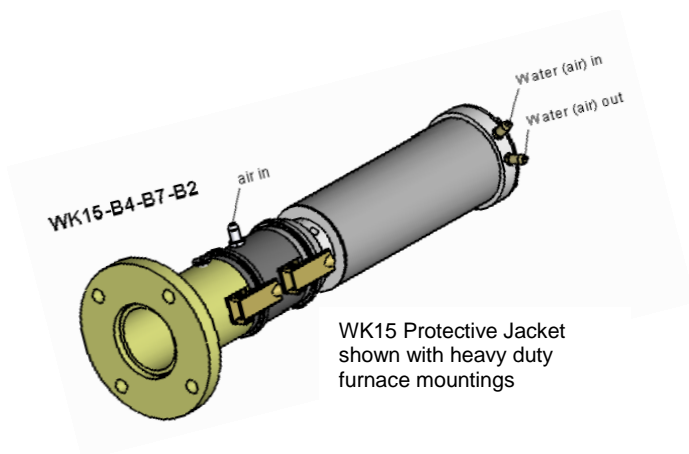


DIMENSIONS



Specify 12 core wiring cable length and jacket material type. 2m, 5m etc. PVC, TFE, or TPE

ACCESSORIES and OPTIONS for Housings and Mountings *(partial listing of what is available)*



WK15 Protective Jacket shown with heavy duty furnace mountings



CT11 shown with optional NW25 vacuum flange (40mm dia) ; others available on request



Lens Air Purge



Protective and Cooling Housing WK15 with Lens Air Purge and Mounting Bracket



Protective and Cooling Housing WK15 with Lens Air Purge, Mounting Bracket and Extension Tube