HEITRONICS
Infrarot Messtechnik

CT11 Series

Infrared Radiation Thermometer CT11

- **Rugged stainless steel housing, IP68**
- **Wide temperature ranges from 0 to 500 °C / 500 to 2000 °C**
- **Very fast response times ≥ 50 ms (programmable)**
- **Fields-of-view as small as 1 mm**

GENERAL SPECIFICATION

Temperature ranges:	■	0 to 500 °C, 200 to 1000 °C, 500 to 2000 °C (→ Table "Application / Model")
Temperature resolution (NETD):	■	Depends on measured temperature and response time, typical value 0.1 °C (at 300 ms, 100 °C, ε= 1)
Accuracy (uncertainty):	■	± 0.8 °C plus 0.8% of the difference between target and sensor head temperature
Long term stability:	■	Better than 0.01% of the absolute measured value per month
Field of view diameter:	■	From Ø 1 mm, depends on lens
Spectral response:	■	8 to 14 µm, 2.5 µm, 3.9 µm
Programmable functions via serial interface:	■	Emissivity, Environmental temperature, Analog output, Function of analog output, Response time, Temperature unit, Valley / Peak-picker with decay function
Emissivity:	■	0.100 to 1.000 in 0.001-steps
Response time:	■	From 50 ms to 10 s (0.05, 0.1, 0.3, 1, 3, 10 s)
Temperature unit:	■	°C, K or °F
Analog output (Hardware):	■	Linear 0 - 20 mA, or 4 - 20 mA, Scalable temperature span ≥ 50 °C
Analog output (Functions):	■	Actual value
Analog output (Resolution):	■	12 bit
Valley / peak picker programmable (only digital):	■	Reset: internal (via Serial interface)
Serial interface:	■	RS232-interface, bi-directional, 9.6 to 57.2 kbps, for programming and data transfer
Alarm output:	□	Programmable (Open Collector)
Operating voltage:	■	10.5 VDC to 30 VDC / 12 (-10 %) VAC to 24 (+10 %) VAC
Power consumption:	■	≤ 2.5 W
Permissible ambient temperature:	■	-25 to 60 °C
	□	With Protective- and Cooling Housing WK15 up to 300 °C
Storage temperature:	■	- 40 to 85 °C
Protective class:	■	IP68 (IEC), (NEMA 4 equivalent)
Housing:	■	Stainless steel
PC-based Software:	■	EasyConfig: Software for Parameter setting
	□	EasyMeas: Software for Parameter setting, data recording, data storage and data evaluation

■ Standard function / value
□ Option

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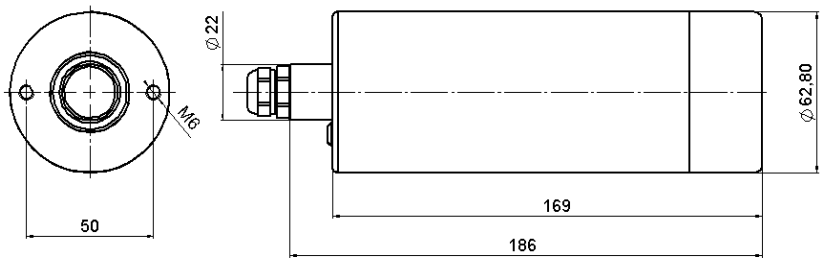
SELECTION GUIDE
FOR CT11-Series

Application / Material	Model / Type	Temperature range / °C
Natural material, Paint, Chemicals, Rubber Paper, textiles, ceramics, asphalt, wood, electronic components, building materials, food …	**CT11.11**	**0 … 500**
Glass / Ceramic / General	**CT11.4**	**200 … 1000**
Metal / Metal oxide / Ceramic	**CT11.2**	**500 … 2000**

DIMENSIONS



ACCESSORIES

Airpurge

Protective and
Cooling Housing

Protective and Cooling Housing
with Airpurge and Extension Tube