

# CT09 Series

### Infrared Radiation Thermometer CT09

- Rugged stainless steel housing, IP65
- Wide temperature range from -30 to 900 °C
- Very fast response times ≥ 50 ms (programmable)
- Fields-of-view as small as 1 mm
- Compatible to Infrared Radiation Thermometer KT12





-30 to 500 °C; □ 0 to 900 °C Temperature range:

Depends on measured temperature and response time, typical value 0.2 °C Temperature resolution (NETD):

(at 300 ms, 100 °C, E= 1)

± 1.0 °C plus 0.6 % of the difference between target and sensor head temperature Accuracy (uncertainty): as a function of housing temperature: 0.01 % / °C for housing temp. others than 25 °C

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  $14 \mu m$ 

Emissivity, environmental temperature, analog output, function of analog output, Programmable functions via serial response time, temperature unit, valley/peak picker with decay function, alarm values interface:

and output (B)

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)

°C, K or °F Temperature unit:

Analog output (Hardware): Linear 0 - 20 mA, or 4 - 20 mA, scalable temperature span ≥ 50 °C

Analog output (Functions): Actual value, max-value or min-value

Analog output (Resolution): 12 bit

Valley/peak picker programmable: Reset: internal

Reset: external input

RS232-interface, bi-directional, 9.6 to 57.6 kbps, for programming and data transfer Serial interface:

Alarm output: Programmable (open collector)

16 VDC to 32 VDC Operating voltage:

10 VDC to 15 VDC

Power consumption: Approx. 1.6 W

Permissible ambient temperature: -25 to 70 °C

With protective and cooling housing WK11 up to 300 °C

Storage temperature: -40 to 85 °C

> IP65 (IEC), (NEMA 4 equivalent) Protective class:

> > Housing: Stainless steel

EasyConfig: Software for parameter setting PC-based Software:

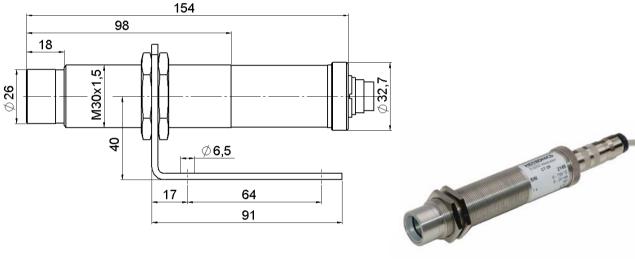
EasyMeas: Software for parameter setting, data recording, data storage and data

evaluation

Standard function (B) with option "Alarm output" □ Option

CT09 Lens type	Field of view @ mm distance
CT09.K	40 mm @ 1 m
CT09.L	3 mm @ 110 mm
CT09.M	1 mm @ 25 mm
CT09.N	4.5 mm @ 165 mm

## **DIMENSIONS**



CT09 Dimensions in mm

# **ACCESSORIES**



Protective and cooling housing WK11