

CT18.04LL

Infrared Radiation Pyrometer CT18.04LL

for Non-Contact Temperature Measurement

- Rugged stainless steel housing, IP65
- Wide temperature ranges from 250 °C to 2900 °C
- Very fast response times ≥ 1 ms (programmable)
- Fields-of-view as small as 0.4 mm
- Laser aims the center and the size of the field-of-view in focus



GENERAL SPECIFICATION

Temperature ranges: □ 250 °C to 1200 °C, □ 300 °C to 1400 °C, ■ 350 °C to 1700 °C, □ 400 °C to 2700 °C, □ 470 °C to 2700 °C

dure ranges: □ 400 °C to 2300 °C, □ 450 °C to 2700 °C

Temperature resolution (NETD): Depends on measured temperature and response time, typical value 0.1 °C (at 100 ms, 350 °C, ε= 1)

Accuracy (uncertainty): ± 0.5 °C plus 0.5% of the difference between target and sensor head temperature

Long term stability: • Better than 0.01% of the absolute measured value per month

Spectral response: ■ 1.6 µm

interface:

Programmable functions via serial Emissivity, environmental temperature, analog output, function of analog output,

 response time, temperature unit, valley/peak picker with decay function, reset after time, laser function, alarm values and output

Emissivity: • 0.050 to 1.000 in 0.001-steps

Response time: From 1 ms to 10 s (0.001, 0.003, 0.01, 0.03, 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 or 0 - 10 V scalable temperature span ≥ 200 °C

Analog output (Functions):

Actual value, max-value or min-value

Analog output (Resolution): ■ 16 bit

Valley/peak picker programmable:

Reset: internal

Reset: external input

Reset: after time (programmable)

RS232-interface, bi-directional, 9.6 kbps to 230 kbps and

Serial interface:

RS485 interface, Half-Duplex or Full-Duplex, 9.6 kbps to 230 kbps

for programming and data transfer

Alarm output: ■ Programmable dry contact (relay)

Operating voltage: ■ 10.5 VDC to 30 VDC

Power consumption: ■ ≤ 2.5 W

Permissible ambient temperature: ■ -20 °C to 70 °C

□ With protective and cooling housing WK15 up to 300 °C

Storage temperature: ■ -40 °C to 85 °C

Protective class:

IP65 (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 functionOption



OPTICS

Fibre optic with objective (lens)

Objectives (Lenses): ■ Focusable from 55 mm to infinitive

Field of view diameter: ■ From Ø 0.4 mm, depends on lens

Laser function:

| Time out or permanent operation, while flashing or continuous marking

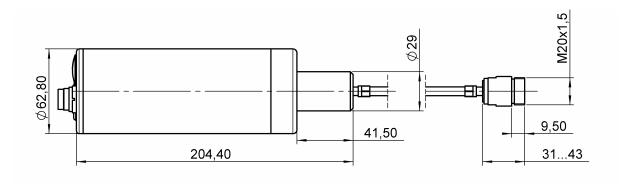
Permissible ambient temperature:

-25 °C to 200 °C

Protective class:

IP54

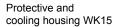
DIMENSIONS



Dimensions in cm

ACCESSORIES







Protective and cooling housing with airpurge and extension tube