HEITRONICS

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)
- \bullet 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 2300 °C, □ 450 °C to 2700 °C
Temperature resolution (NETD):		Depends on measured temperature and response time,
remperature resolution (NETD).	١.	typical value 0.1 °C (at 100 ms, 350 °C, ε= 1)
Accuracy (uncertainty):	j.	\pm 0.5 °C plus 0.5% of the difference between target and sensor head temperature
Long term stability:	١.	Better than 0.01% of the absolute measured value per month
Spectral response:	١I	1.6 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, reset after time, laser function, alarm values and output
Emissivity:	• I	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 \ge 200 °C
Analog output (Functions):	١Į	Actual value, max-value or min-value
Analog output (Resolution):	•	16 bit
Valley/peak picker programmable:	١I	Reset: internal
•	e l	Reset: external input
-	1	Reset: after time (programmable)
Serial interface:	•	RS232-interface, bi-directional, 9.6 kbps to 230 kbps and RS485 interface, Half-Duplex or Full-Duplex, 9.6 kbps to 230 kbps for programming and data transfer
Alarm output:	1	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
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
C		EasyMeas: Software for parameter setting, data recording, data storage and data evaluation



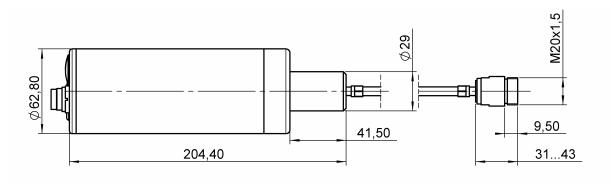
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OPTICS

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
Field of view marking:		Laser built-in: aims the center and the size of the field of view in focus
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

