HEITRONICS

CT18.03LL

Infrared Radiation Pyrometer CT18.03LL

for Non-Contact Temperature Measurement

- Rugged stainless steel housing, IP65
- Wide temperature ranges from 500 °C to 3000 °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

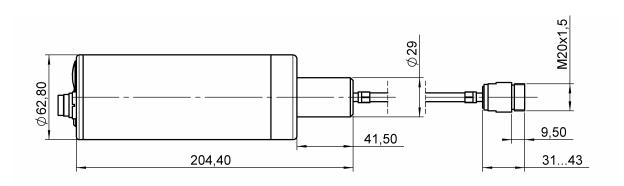
Temperature ranges:	•	□ 500 °C to 1400 °C, □ 550 °C to 1800 °C, ■ 650 °C to 2200 °C, □ 700 °C to 2500 °C, □ 750 °C to 3000 °C
Temperature resolution (NETD):	•	Depends on measured temperature and response time, typical value 0.1 $^{\circ}\text{C}$ (at 100 ms, 350 $^{\circ}\text{C},$ ϵ = 1)
Accuracy (uncertainty):	•	\pm 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	0.95 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:	•	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:	- 1	°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):	•	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)
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:	•	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
I		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
ſ		EasyMeas: Software for parameter setting, data recording, data storage and data evaluation
		Standard function Option

OPTICS

Fibre optic with objective (lens)

Objectives (Lenses):	-	Focusable from 52 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



Protective and cooling housing WK15

Protective and cooling housing with airpurge and extension tube