

LT13.10 EB

Infrared Radiation Pyrometer LT13.10 EB

- Measurement of very low emissivities (> 0.02)
- Highly reflecting gold mirror (compensated)
- Defined spot size



GENERAL SPECIFICATION

0 to 500 °C Temperature range:

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

(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: 5 mm at 5 mm (fixed distance)

Spectral response: 8 to 14 µm

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 30 ms to 10 s (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, 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

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

Programmable (open collector) Alarm output:

10.5 VDC to 32 VDC / 10.8 VAC to 26.4 VAC Operating voltage:

Power consumption: Approx. 2.5 W

Permissible ambient temperature: -25 to 60 °C

Housing:

-40 to 85 °C Storage temperature:

IP68 (IEC), (NEMA 4 equivalent) Protective class:

PC-based Software: EasyMeasConfig: Software for parameter setting

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

evaluation

■ Standard function

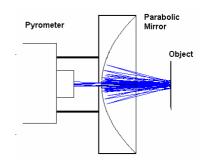
Stainless steel / brass gilds

□ Option

(B) with option "Alarm output"



A gold plated parabolic mirror focuses the measured spot on to itself. Thus IR radiation is captured between object and mirror. Due to multiple reflections the radiance in this area is up to 15 times higher than without mirror.



APPLICATIONS

Applications / Material	Model / Type	Temperature Range / °C
Paper industry		
Glossy finish rolls	LT13.10	150 - 200
Metal industry		
Galvanized steel, Aluminium foil	LT13.10	50 - 300
Aluminium casting,	LT13.2	450 - 600
Printing industry		
Holographic stencils	LT13.10	20 - 100
Quality control		
Compensation of temperature expansion in quality control	LT13.10	20 - 60

DIMENSIONS (in mm)

