Infrared pyrometer IN15

Precision infrared pyrometer **IN15** is a low-cost, user-friendly thermometer featuring access to all controls using just one hand. Equiped with laser, the **IN15** is suitable for any type of non contact temperature mesurement.
The device is delivered with a certificate of conformity.

- **Temperature measurement from -32 to +900°C**
- **RS 232 C output**
- **Analogue output**
- **Audible alarm**
- **Integrated memory (option)**
- **⟨€ approval**
- **Designed for industry: Agro-foodstuffs, composite products, paper and wood industry, textiles, rubber and PVC, paint, glass, ceramics**

Specifications

Detector	Thermopile
Measurement range	-32 to +900°C
Accuracy (ε=1) (T° of use = 23°C)	± 1% of measured value, ± 1 K at 23°C ± 2 K for a measured temperature ≤ 10°C
Reproducibility	± 0.5% of the measured value or ± 1 K
Response time $t_{90/ms}$	150 ms
Spectral band	8 to 14 µm
Emission factor	Adjustable 20 to 100%
Display unit	Liquid crystal
Display resolution	0.1°C from -30 to 900.0°C 0.1°F from -22 to 999.9°F 1°F from 1000 to 1625°F
Display lighting	Adjusts automatically to ambient light
Temperature display	°C or °F Large display: 4 digit, height 9 mm Small display: 4 digit, height 4.5 mm
Compensated temperature	Adjusted in relation to the ambiant temperature
Operating temperature	0 to 55°C
Storage temperature	-20 to +70°C
Degree of protection	IP 20
Power supply	Standard 9 volt battery (Type IEC 6 LR 61 supplied)
Charger	Socket for battery charger

Functions

MAX/MIN/△T/AVG	HOLD/s
Yes	10 s

Memory/Value (option)	250 measurements with date, time, emission factor, address, measurement interval, unit
Measurement interval	OFF; PRT; 0,1s; 0,2s; 0,5s; 1s; 2s to 100s
Alarm function	High alarm **Option:** High + low alarm
Interface	RS232, 9600 baud with USB type B connection Analogue output 1 mV/°C; 1 mV/°F
Laser sighting	Class 2 Power < 1 mW, 650 nm If ambient temperature > 50°C, the laser automatically cuts off
Lens aperture	20mm

Measurement distance

	IN 15			
Measurement distance (in mm)	0	500	1000	2000
Measurement spot diameter (in mm)	20	20	20	60

Case	ABS, class UL VO
Camera stand attachment	UNC 1/4"
Battery life	50 hours (without laser) with 9V battery 12 hours (without laser) with 9V rechargeable
⟨€ approval	Valid EMV inspection

Options

- **IN15**
  With 250-step memory + high and low alarm
  With memory and contact probe device (MP 2000)
  With memory and contact probe device with memory (MP2001)
  Version for measurement of glass

- **Calibration certificate**
  1 measurement point at 200°C
  2 measurement points at 23 and 200°C
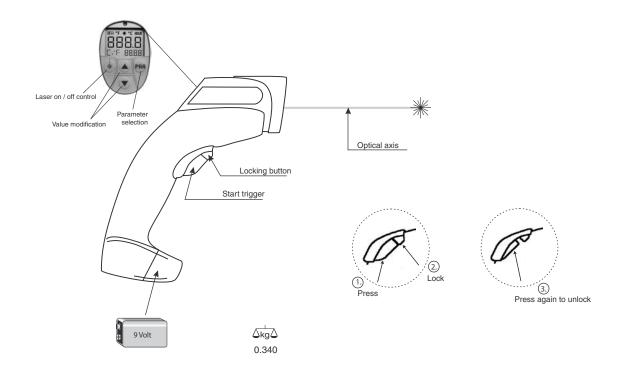 3 measurement points at 23, 200 and 485°C

Accessories

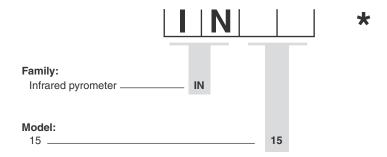- Carrying case (standard)

Options:
- Short focal length lens:
  measurement distance = 100 mm
  measurement spot diameter = 2 mm
- PortaWin software with RS 232 C cable
- RS 232 C cable
- Analogue connection cable
- Charger
- 9 V rechargeable battery

Dimensions

Laser on / off control

Value modification

Parameter selection

Optical axis

Locking button

Start trigger

9 Volt

△kg△
0.340

① Press

②. Lock

③. Press again to unlock

Coding

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Family:
Infrared pyrometer —————— **IN**

Model:
15 ————————————— **15**

✱ Uncoded options have to be listed after the code