

# Infrared pyrometer IN15

Precision infrared pyrometer **IN15** is a low-cost, user-friendly thermometer featuring access to all controls using just one hand. Equipped with laser, the **IN15** is suitable for any type of non contact temperature measurement.

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)**
- **CE approval**
- **Designed for industry: Agro-foodstuffs, composite products, paper and wood industry, textiles, rubber and PVC, paint, glass, ceramics**



## Specifications

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

### Functions

MAX/MIN/ΔT/AVG	HOLD/s
Yes	10 s

<b>Memory/Value</b>	250 measurements with date, time, <b>(option)</b> emission factor, address, measurement interval, unit															
<b>Measurement interval</b>	OFF; PRT; 0,1s; 0,2s; 0,5s; 1s; 2s to 100s															
<b>Alarm function</b>	High alarm <b>Option:</b> High + low alarm															
<b>Interface</b>	RS232, 9600 baud with USB type B connection Analogue output 1 mV/°C; 1 mV/°F															
<b>Laser sighting</b>	Class 2 Power < 1 mW, 650 nm If ambient temperature > 50°C, the laser automatically cuts off															
<b>Lens aperture</b>	20mm															
<b>Measurement distance</b>																
	<b>IN 15</b>															
	<table border="1"> <thead> <tr> <th></th> <th>0</th> <th>500</th> <th>1000</th> <th>2000</th> </tr> </thead> <tbody> <tr> <td>Measurement distance (in mm)</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Measurement spot diameter (in mm)</td> <td>20</td> <td>20</td> <td>20</td> <td>60</td> </tr> </tbody> </table>		0	500	1000	2000	Measurement distance (in mm)					Measurement spot diameter (in mm)	20	20	20	60
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<b>Case</b>	ABS, class UL VO															
<b>Camera stand attachment</b>	UNC 1/4"															
<b>Battery life</b>	50 hours (without laser) with 9V battery 12 hours (without laser) with 9V rechargeable															
<b>CE approval</b>	Valid EMV inspection															

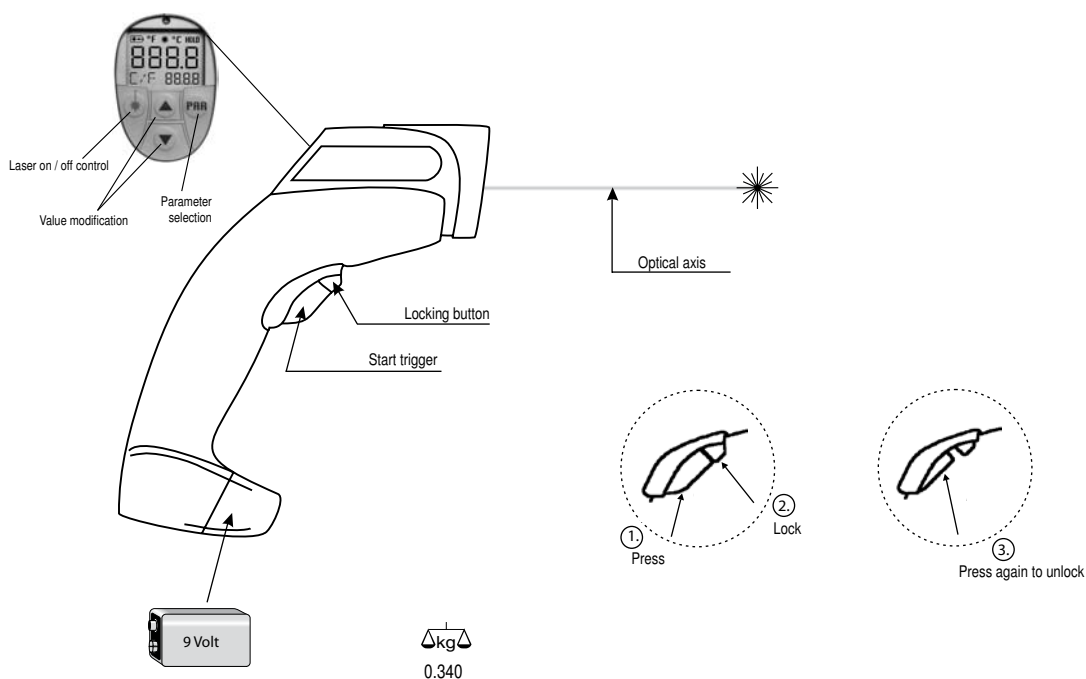
## Options

- **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

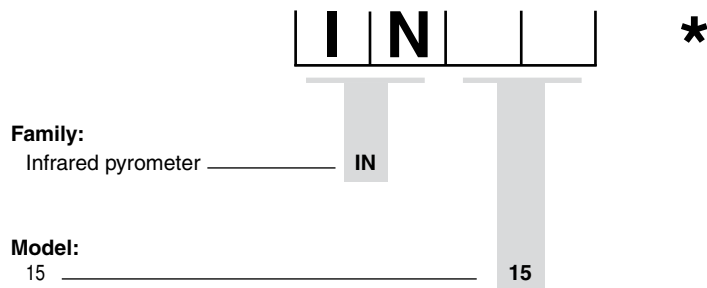
## Accessories

- 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



## Coding



**\* Uncoded options have to be listed after the code**