Non-contact thermometry best done
with *INFRATHERM* pyrometers

IN 300

Compact pyrometer for non-metallic surfaces

Small, stationary infrared thermometer in 2-wire technique for non-contact temperature measurement of non-metallic surfaces between -20°C and 500°C

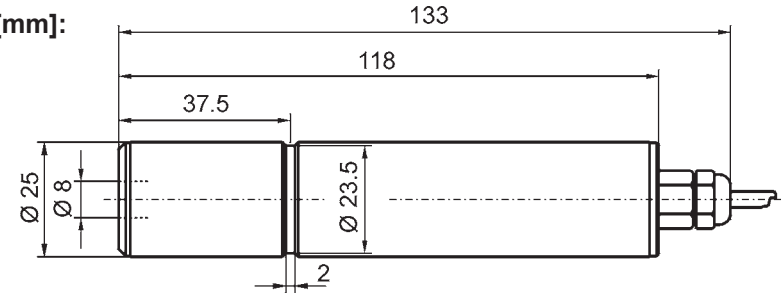
- Very small housing dimensions
- 2-wire technique
- Small spot sizes
- Stainless steel housing
- Easy electrical and mechanical installation
- Suitable for food industry
- Ambient temperature up to 70°C without cooling

The **IN 300** is a stationary pyrometer for non-contact temperature measurement of non-metallic surfaces or painted, coated or anodized metals. The very small housing dimensions enable the integration of the pyrometer in compact production machines, the 2-wire technique enables very easy electrical connection.
The solid and robust design of the instrument guarantees high operational safety even in rough industrial environments.

Typical applications are measurements on:

- plastics
- rubber
- paper
- ceramics
- textiles
- food
- fluids
- painted parts
- asphalt
- wood
- glass
- coated metals

Dimensions [mm]:

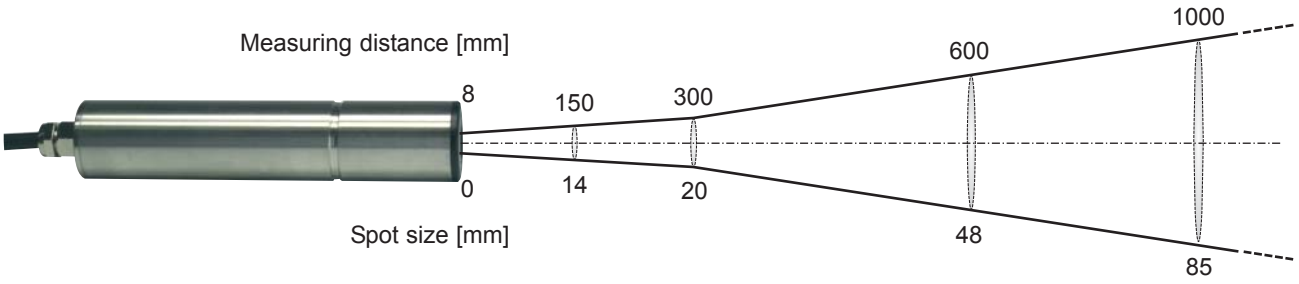


Technical data

Spectral range:	8 ... 14 µm (no influence of water vapour)
IR-detector:	thermopile Si-based
Optics:	Ge lens
Output:	4 ... 20 mA, load independent current, temperature linear
Max load:	500 Ω at 24 V power supply
Emissivity ε:	0.4 ... 1; adjustable
Response time t_{90}:	300 ms
Accuracy:	1.5% of measuring range / °C (ε = 1, T_U = 23°C)
Repeatability:	1% of measuring range

Temp. dependence:	0 ... 60°C: 0.03% of measuring range / °C (23°C)
Power supply:	24 V DC ± 25% stab., ripple < 50 mV
Ambient temperature:	0 ... +70°C
Storage temperature:	-20 ... +70°C
Housing:	stainless steel
Dimensions:	120 mm x 25 mm (L x D)
Protection class:	IP 65 (DIN 40 050)
Mounting position:	any
Weight:	215 g
Connection cable:	2 m, fixed
CE label:	according to EU directives about electromagnetic immunity

Optics



Reference numbers

Pyrometers:

3 856 310	0 ... 100°C
3 856 320	0 ... 200°C
3 856 330	-20 ... 300°C
3 856 350	0 ... 500°C

IMPAC 24 months warranty

Accessories:

3 890 600	Power supply 230 V AC ⇒ 24 V DC (carrier rail mounting housing)
3 852 550	Power supply NG 2D; 85 ... 265 V AC ⇒ 24 V DC, 600 mA, with 2 limit switches
3 890 640	DA 4000-N, LED-display, 2-wire power supply
3 890 650	DA 4000, LED-display, 2-wire power supply, 2 limit switches (relay contacts)
3 890 520	DA 6000, LED-display, RS232, 2-wire power supply, maximum value storage, analog output
3 890 530	DA 6000 with RS485
3 890 660	IP65 front cover for the LED-displays
3 890 610	Galvanic separator for measuring output (carrier rail mounting housing)
3 863 010	Converter 4 ... 20 mA to 0 ... 20 mA
3 834 220	Adjustable mounting support, standard design
3 834 230	Adjustable mounting support, rugged design
3 846 170	Mounting tube
3 835 180	Air purge unit, stainless steel
3 835 220	Air purge unit, stainless steel, short version
3 827 070	Laser targeting light
3 827 100	Twin laser targeting light
3 837 160	Stainless steel water cooling jacket with integrated air purge unit


Power supply CZ


LED digital display


Mounting support standard design


Mounting support rugged design


Air purge units


Water cooling jacket with air purge unit

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