Non-contact thermometry best done
with *INFRATHERM* pyrometers

IS 300 · IGA 300

Compact pyrometer for metallic surfaces

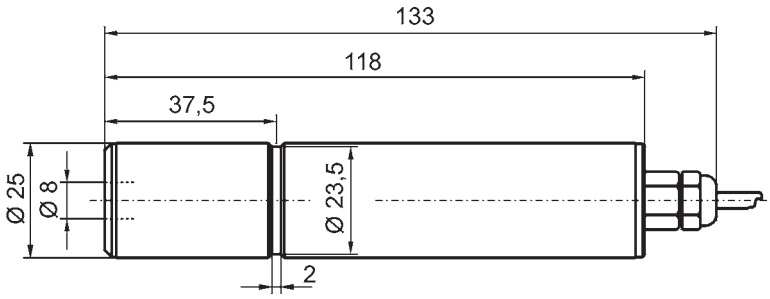
Small, stationary infrared thermometer in 2-wire technique for non-contact temperature measurement of metallic surfaces, graphite or ceramics between 300°C and 2500°C

- Very small housing dimensions
- 2-wire technique
- Short response time
- Small spot sizes
- Stainless steel housing
- Easy electrical and mechanical installation
- Adjustable Emissivity
- Built-in LED targeting light
- Ambient temperature up to 70°C without cooling

The IS 300 and IGA 300 are stationary pyrometers for non-contact temperature measurement of metallic surfaces, graphite, ceramics, ets.
The very small housing dimensions enable the integration of the pyrometer in compact production machines, the 2-wire technique enables very easy electrical connection.
For optimal match of the instrument to the application 3 different focusable optics with small spot sizes are available.
The solid and robust design of the instrument guarantees high operational safety even in rough industrial environments.

Typical applications:

- preheating
- annealing
- tempering
- welding
- forging
- hardening
- sintering
- melting
- soldering
- rolling
- brazing
- normalizing

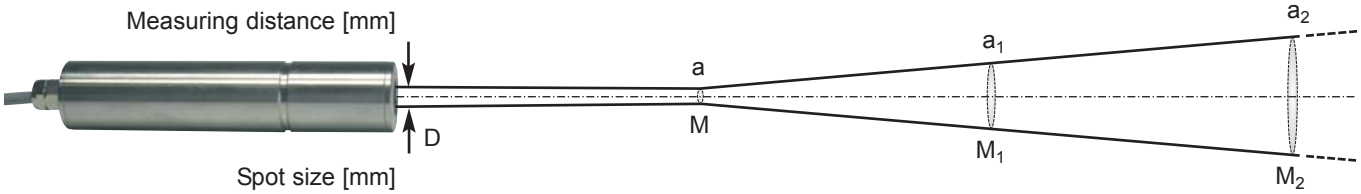


IMPAC - Specialist in non-contact thermometry

Technical data

Spectral range:	IS 300: 0.8...1.1 µm IGA 300: 1.45...1.8 µm	Sighting:	LED targeting light with separate 5 ... 24 V DC supply
Output:	4 ... 20 mA, load independent current, temperature linear	Ambient temperature:	0 ... +70°C
		Storage temperature:	-20 ... +70°C
Max load:	500 Ω at 24 V power supply	Housing:	stainless steel
Emissivity ε:	0.2 ... 1; adjustable	Dimensions:	118 mm x 25 mm (L x D)
Response time t_{90}:	10 ms	Protection class:	IP65 (DIN 40 050)
Accuracy:	1.5% of measuring range / °C (ε = 1, T_U = 23°C)	Mounting position:	any
		Weight:	215 g
Temp. dependance:	0.02% of measuring range / °C	Connection cable:	2 m, fixed
Repeatability:	0.5% of measuring range	CE label:	according to EU directives about electromagnetic immunity
Power supply:	24 V DC ±25% stab., ripple < 50 mV		

Optics



Type	Optics	D	a	M	a_1	M1	a_2	M_2
IS 300	1	5	**110**	**1.6**	200	6	400	16
IS 300	2	5	**300**	**3.7**	600	11	800	16
IS 300	3	5	**600**	**8.0**	1000	14	2000	30
IGA 300	1	9	**90**	**2.2**	200	11	400	30
IGA 300	2	9	**300**	**5.0**	600	15	800	21
IGA 300	3	9	**600**	**10.0**	1000	16	2000	38

Reference numbers

3 856 610	IS 300, MB 13	650 ... 1300°C	3 856 500	IGA 300, MB 8	300 ... 800°C
3 856 620	IS 300, MB 18	650 ... 1800°C	3 856 510	IGA 300, MB 12	400 ... 1200°C
3 856 630	IS 300, MB 23	800 ... 2300°C	3 856 530	IGA 300, MB 13L	300 ... 1300°C
3 856 650	IS 300, MB 25	1100 ... 2500°C	3 856 540	IGA 300, MB 15	500 ... 1500°C

Note: when ordering please specify an optics 1, 2 or 3

IMPAC 24 months warranty

Accessories:

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