





IS 200 · IGA 200 Fast, precise, compact

For temperature measurements of metal surfaces, graphite, ceramics etc. between 300°C and 2500°C

- 2 different spectral ranges
- High accuracy due to digital signal processing
- 2-wire form
- Easy electrical and mechanical installation
- Small spot sizes
- Short response time
- Built-in maximum value storage
- LED targeting light
- Temperature subrange programmable within the basic temperature range
- Stainless steel housing
- Ambient temperature up to 70°C without cooling

IS 200 and **IGA 200** are stationary pyrometers for non-contact temperature measurement of metal surfaces, graphite, ceramics etc.

The programmable parameters such as emissivity, subrange or response time and the integrated maximum value storage can be preset ex works or adjusted via HT 6000. This enables the instruments to be adapted to various measuring tasks.

The solid and robust design of the instruments guarantees high operation safety even in rough industrial environments.





IMPAC - Specialist in non-contact thermometry

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Technical data

Spectral range:	0.8 1.1 μm (IS 200); 1.45 1.8 μm (IGA 200)
Accuracy:	0.5% of measured value in °C + 1°C (with correct emissivity, 25°C, t_{90} = 1 s)
Repeatability:	0.1% of measured value in °C + 1°C
Resolution:	0.1°C
Parameter programming:	By portable battery driven setup device HT 6000 (or preset ex works on request)
Response time t ₉₀ :	20 ms, adjustable via service interface up to 10 s
Maximum value storage:	Different modes adjustable via service interface
Emissivity E:	0.05 1.0 adjustable via service interface
Output:	4 20 mA, linear; max. load 700 Ω at 24 V
Power supply:	24 V DC ± 25%, ripple 500 mV; LED: 5 30 V DC, 35 mA
Power consumption:	Max. 0.6 W (without LED targeting light)
Fixed connecting cable:	2 m length
Sighting:	LED targeting light
Protection class:	IP65 (according to DIN 40 050)
Ambient temperature:	0 70°C
Storage temperature:	-20 +70°C
Weight:	Approx. 450 g
Dimensions:	Thread M 40 x 1.5 mm; 138 mm length
CE-label	According to EU directives about electromagnetic immunity

Optical Data

	Distance a [mm]	Spot size M [mm] IGA 200 (all MB); IS 200 (MB 18)	Spot size M [mm] IS 200 (MB 25)	Aperture D [mm]
Optics 300	300	2 (only IGA 200)	_	17
Optics 600	600	6	4	13
Optics 1000	1000	9	5	16
Optics 1500	1500	11	7	17

Reference numbers for instruments

	IS 200 MB 18 650 1800°C	IS 200 MB 25 800 2500°C	IGA 200 MB 13 300 1300°C	IGA 200 MB 18 350 1800°C
Optics 300	_	—	3 819 260	3 819 270
Optics 600	3 819 100	3 819 130	3 819 200	3 819 230
Optics 1000	3 819 110	3 819 140	3 819 210	3 819 240
Optics 1500	3 819 120	3 819 150	3 819 220	3 819 250

Reference numbers for accessories

3 826 500 3 820 980 3 890 640	Portable battery driven setup device Connecting cable to HT 6000 Digital display DA 4000-N with 2 wire form power supply	HT 6000 3 890 600 3 837 360 3 835 320	Power supply CZ; 230 V AC Water cooling jacket with inte air purge unit Air purge unit	\Rightarrow 24 V DC, 200 mA egrated
3 890 650	Digital display DA 4000 with 2 wire f power supply and 2 limit switches	orm 3 834 350 3 834 360	Mounting angle, adjustable Mounting angle, fixed	z arranty
	48] · c			
HT 6000	DA 4000 DA 4000-N	Water cooling jacket with integrated air purge	Mounting angle fixed	Mounting angle adjustable
IMPAC Int Temperature	frared GmbH Measurement			R

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