

X Non-contact thermometry best done
with *INFRATHERM* pyrometers

impac[®]



IN 200

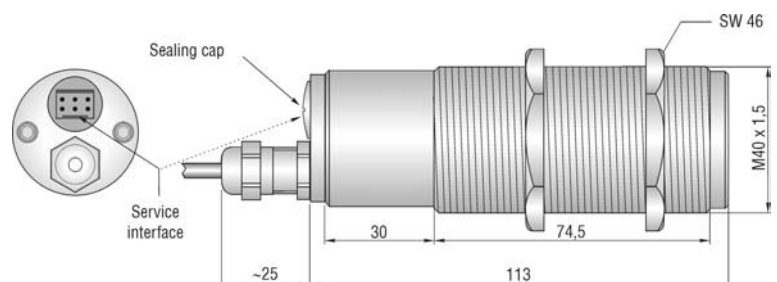
2-wire, precise, compact

For temperature measurement of non-metallic surfaces.
Also for painted, coated or anodized metals. Temperature range between -32 and 900°C.

- ◆ High accuracy due to digital signal processing
- ◆ 2-wire form
- ◆ Easy electrical and mechanical installation
- ◆ Small spot sizes
- ◆ Short response time
- ◆ Temperature subrange programmable within the basic temperature range
- ◆ Stainless steel housing
- ◆ Ambient temperature up to 70°C without cooling



The **IN 200** is a stationary pyrometer for non-contact temperature measurement of non-metallic surfaces or painted, coated or anodized metals. The programmable parameters such as emissivity, subrange or response time can be preset ex works or adjusted via HT 6000. This enables the instrument to be adapted to various measuring tasks. The solid and robust design of the instrument guarantees high operational safety even in rough industrial environments.



Technical data

Spectral range:	8 ... 14 μm
Accuracy:	1% of measured value in $^{\circ}\text{C} + 1^{\circ}\text{C}$ (with correct emissivity, 25°C , $t_{90}= 1 \text{ s}$)
Repeatability:	0.5% of measured value in $^{\circ}\text{C} + 1^{\circ}\text{C}$
Resolution:	0.1 $^{\circ}\text{C}$
Parameter programming:	By portable battery driven setup device HT 6000 (or preset ex works on request)
Response time t_{90} :	120 ms, adjustable up to 10 s via service interface
Emissivity:	0.2 ... 1.0 adjustable via service interface
Output:	4 ... 20 mA, linear; max. load 700 Ohm at 24 V
Power supply:	24 V DC \pm 25%; ripple \leq 500 mV
Power consumption:	Max. 0.6 W
Fixed connecting cable:	2 m length
Distance ratio:	40 : 1
Aperture:	15 mm
Protection class:	IP65 (according to DIN 40 050)
Ambient temperature:	0 ... 70°C
Storage temperature:	-20 ... $+70^{\circ}\text{C}$
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]
Optics 100	100	2.5
Optics 300	300	7.5
Optics 800	800	20

Aperture (optical effective lens diameter) 15 mm

Reference numbers

Instruments:

3 819 500	IN 200; -32 ... 900°C , optics a = 100 mm
3 819 510	IN 200; -32 ... 900°C , optics a = 300 mm
3 819 520	IN 200; -32 ... 900°C , optics a = 800 mm

3 890 650

Digital display DA 4000 with 2 wire form power supply and 2 limit switches
Power supply CZ; 230 V AC
 \Rightarrow 24 V DC, 200 mA

3 890 600

3 837 360

Water cooling jacket with integrated air purge unit

3 835 320

Air purge unit

3 834 350

Mounting angle, adjustable

3 834 360

Mounting angle, fixed

3 827 110

Battery driven laser targeting light

Accessories:

3 826 500	Portable battery driven setup device HT 6000
3 820 980	Connecting cable to HT 6000
3 890 640	Digital display DA 4000-N with 2 wire form power supply



HT 6000



DA 4000
DA 4000-N



Water cooling jacket
with integrated air purge unit



Mounting angle
fixed



Mounting angle
adjustable



Laser targeting
light

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Specifications are subject to change without notice.