

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

impac[®]



IGA 15 *plus*

High-quality, fast, portable pyrometer

Affordable, high temperature short wavelength pyrometer for non-contact temperature measurement of metals between 250 and 1800°C

- ◆ Easy to handle
- ◆ Large illuminated LC display
- ◆ Laser aiming
- ◆ Built-in data logger
- ◆ Long temperature range
- ◆ High accuracy
- ◆ Fast temperature detection, only 20 ms
- ◆ Measurement of smallest objects from 1.25 mm
- ◆ Integrated additional functions
- ◆ Digital Interface RS232
- ◆ Analyzing software *PortaWin* (option)



The **IGA 15 *plus*** is a robust, digital and accurate pyrometer with built-in data logger (750 values) for non-contact temperature measurement on metals, ceramics, graphite etc. with a temperature range of 250 ... 1800°C. The instrument is equipped with a laser targeting light, The size of the laser spot has approximately the size of the measuring spot.

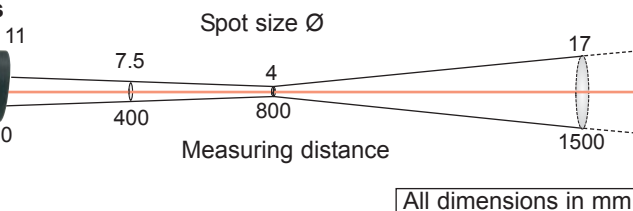
The instrument has a maximum value storage, minimum value storage, average and difference function as well as an acoustic alarm. The high quality optics enables the measurement of small objects from 4 mm, in combination with the close-up lens even from 1.25 mm.

With the short exposure time of only 20 ms even fast moving objects can be measured exactly.

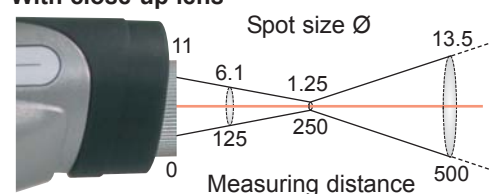
Typical applications:

- preheating, tempering, hardening, normalizing
- forging, brazing
- sintering
- welding, rolling
- founding

Standard optics



With close-up lens



IMPAC - Specialist in non-contact thermometry

Technical Data

Temperature range:	250 ... 1800°C
Spectral range:	1.45 ... 1.8 µm
Detector:	InGaAs detector
Accuracy:	0.6% of measuring value (T _U = 23°C, EMI = 100%)
Repeatability:	0.2% of measuring value
Temperature coefficient:	0.01% of measuring value in °C per °C deviation of ambient temperature of 23°C
Exposure time t ₉₀ :	20 ms (with dynamical adaptation at low signal levels)
Emissivity:	10 ... 100%, adjustable in 1% steps
Temperature display:	3 values / s
Temperature resolution:	on the display: 0.1°C (°F) from 250 to 999.9°C (482...999.9°F), 1°C from 1000 to 1800°C (1000...3272°F) via interface: 0.1°C or 0.1°F
Display illumination:	automatically at a certain darkness
Measuring unit:	°C / °F, switchable
Measuring functions:	Display of maximum or minimum or average or difference value (MAX, MIN, AVG, DIF)
Alarm function:	Adjustable acoustic alarm (HI)
Data logger:	750 values; readable at pyrometer: temp. value with storage number; readable via interface: value with storage number, time, date, emissivity, unit, max. and min value of the measurement series
Storage function:	manual data logging via push button or automatic logging in adjustable time intervals [s]: 0.02; 0.04; 0.1; 0.2; 0.5; 1; 2; 5; 10; 20; 50
Serial interface:	RS232 interface with 57600 baud
Analog output:	1 mV/°C or 1 mV/°F; resolution 1 degree
Power supply:	9 V battery (IEC 6LR61) or 9 V-NiMH rechargeable battery (e.g. Varta type 5622)
Battery operation time:	50 hours with 9 V battery (without laser and display illumination) 15 hours with 9 V rechargeable battery (without laser and display illumination)
Charging connector:	for IMPAC battery charging unit 3 858 490
Operating temperature:	0 ... 60 °C
Storage temperature:	-20 ... 70 °C
Housing:	ABS
Weight:	340 g
Fixing thread:	photo tripod thread 1/4" - 20 UNC
Protection class:	IP20
CE-label:	according to EU directives about electromagnetic immunity



Reference numbers

3 887 500 IGA 15 *plus* (scope of delivery: instrument, battery, carrying case, inspection sheet, user manual.)

Accessories:

3 749 150	NiMH rechargeable battery 9 V	3 858 460	CD with a Analyzing software <i>PortaWin</i>
3 806 540	Universal battery charger for 9 V batteries		and RS232 cable
3 858 520	Belt bag	3 858 480	Analog cable
3 858 490	Battery charger with charging connector	3 858 550	Close-up lens

Overview Accessories



belt bag



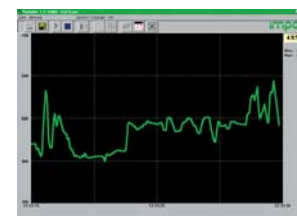
close-up lens



battery charger for connection to charging connector



CD *PortaWin* and RS232 cable



screenshot *PortaWin*

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Temperature Measurement

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Specifications are subject to change without notice