

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

IGA 15 plus

CE

- 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
- USB interface
- Analyzing software PortaWin (option)

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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.

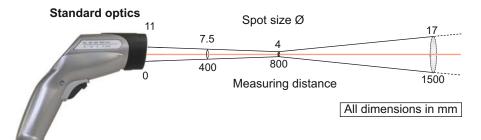
The instrument has a maximum value storage, minimum value storage, average and difference function as well as an acoustic alarm.

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.

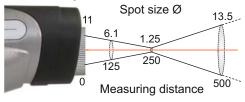
With the short exposure time of only 20 ms even fast moving objects can be measured exactly.

Typical applications:

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



With close-up lens



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Technical Data			
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Temperature range:	250 - 1800°C		
Spectral range:	1.45 - 1.8 μm		
Detector:	InGaAs detector		
Accuracy:	0.6% of measuring value ($T_{amb.} = 23^{\circ}C, \epsilon = 100\%$)		
Repeatability:	0.2% of measuring value		
Temperature coefficient:			
Exposure time t ₉₀ :	20 ms (with dynamical adaptation at low signal levels)		
Emissivity ε:	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 (482999.9°F), 1°C from 1000 to 1800°C (10003272°F) via interface: 0.1°C or 0.1°F		
Display illumination:	automatically adjusting to ambient light conditions		
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:	USB 2.0		
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		
Laser targeting light	Laser class 2, max. laser power level < 1 mW, λ = 650 nm		
Operating temperature:	0 - 60 °C		
Storage temperature:	-20 - 70 °C		
Rel. humidity:	Non condensing conditions		
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

3 887 520 IGA 15 plus (scope of delivery: instrument, battery, carrying case, inspection sheet, user manual.)

Accessories:

3 749 150	NiMH rechargeable battery 9 V	3 858 520	Belt bag	
3 858 540	Universal battery charger for 9 V batteries	3 858 570	CD with analyzing software PortaWin	
3 858 490	Battery charger with charging connector		and USB cable	
3 858 550	Close-up lens	3 858 580	USB cable	

Overview Accessories



Belt bag



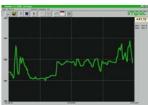
Close-up lens



Battery charger for the charging connector of the pyrometer



CD PortaWin and USB cable



Screenshot PortaWin

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