

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



IMPAC Infrared GmbH  
Temperature Measurement

# IN 5/4 IN 5/4 plus

Digital, precise, compact.



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Digital pyrometers for measurements of objects in flame heated furnaces. The selected spectral range of 3.9  $\mu\text{m}$  avoids an influence of waste gas on the measurement (Additional data sheet to „IN 5/4“ and „IN 5/4 plus“)

- ◆ Measurement through flames (spectral range 3.9  $\mu\text{m}$ )
- ◆ No influence of waste gas on the measurement
- ◆ Reduction of emissivity errors
- ◆ IN 5/4 in 2 wire form
- ◆ IN 5/4 plus with analog and digital output and laser targeting light
- ◆ Digital interface RS232 or RS485



Reference numbers IN 5/4 plus:

Type	Temperature range: 300 ... 1300°C		
	Optics	Interface	
		RS232	RS485
IN 5/4 plus	100	3 869 600	3 869 610
	300	3 869 620	3 869 630
	1200	3 869 640	3 869 650

Type	Temperature range: 500 ... 2500°C		
	Optics	Interface	
		RS232	RS485
IN 5/4 plus	100	3 869 760	3 869 770
	300	3 869 780	3 869 790
	1200	3 869 800	3 869 810

Reference numbers IN 5/4 (2 wire form):

IN 5/4, Temp. range 300 ... 1300°C	3 869 730
IN 5/4, Temp. range 500 ... 2500°C	3 869 730

Please specify optics (100, 300 or 1200) with order

Measurement uncertainty (IN 5/4 plus and IN 5/4):

T	T <sub>U</sub>	15 ... 30°C	0 ... 15°C or 30 ... 63°C
300...1800°C	0.6% of reading in °C or 4°C *)	1% of reading in °C or 6°C *)	
1300...1800°C	0.8% of reading in °C	1.2% of reading in °C	
1800...2500°C	1% of reading in °C	1.4% of reading in °C	

Measurement uncertainty dependent on object temperature T and ambient temperature T<sub>A</sub> ( $\epsilon = 1$ ,  $t_{90} = 1$  s). The instrument must be at a constant ambient temperature for a minimum of 15 minutes

\*) The greater value is valid.

Noise equivalent temperature difference (NETD):

Type:	measuring temperature	response time t <sub>90</sub>	NETD
IN 5/4	500°C	80 ms	0.6°C
	1100°C		0.2°C
IN 5/4 plus	500°C	80 ms	0.6°C
	1100°C		0.2°C

(Emissivity = 1;  $\sigma = 1$ )

Specifications are subject to change without notice