

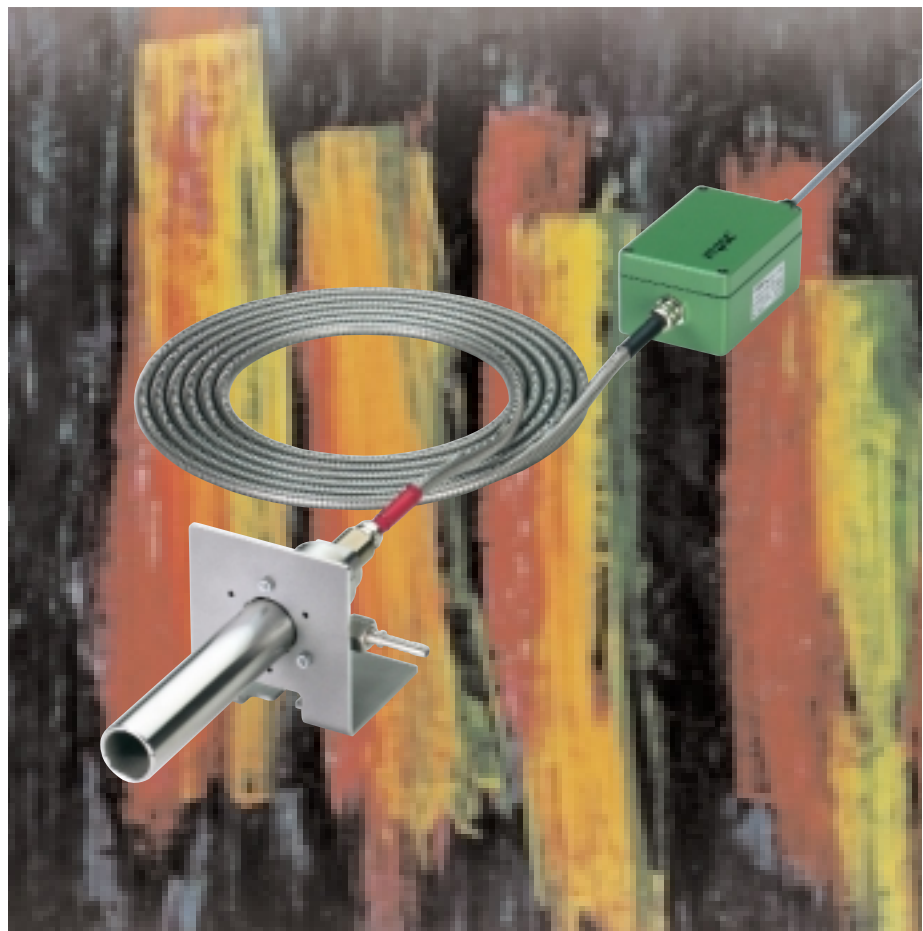


## IS 50-LO/GL

Fixed digital infrared pyrometer with fibre optics for non-contact temperature measurement between 600 °C and 1800 °C

**The compact highly accurate digital infrared pyrometer for the glass industry**

- especially designed for the glass industry
- fully digital
- two-wire technique
- very high accuracy
- configuration via PC/Software
- optical head and fibre optics withstands up to 250°C
- fibre optics stainless steel shielded



Typical applications:

Temperature measurement in glass industry at the fore hearth, crown and working end

**IMPAC - Specialists in non-contact thermometry**

## Technical data IS 50-LO/GL:

IR-detector:	Si-Photoelement	Response time t90:	250 ms
Measuring ranges:	user programmable between 600...1800 °C	Emissivity:	0.05 ... 1.00, adjustable
spectral response:	0.8...1.1 µm	Power supply:	24 V DC ± 25 % ripple max. 50mV
output signal:	4...20mA, load independent DC, temperature linear	Power consumption:	0.6 VA
Max load:	700 Ohm (24 V); 400 Ohm (18 V); 1000 Ohm (30 V)	Interface:	RS 232, half-duplex, baud rate 19.2 kBd, to adjust the parameters
Accuracy:	≤ 1500 °C: 0.3 % of measured value in °C +1K ≥ 1500 °C: 0.5 % of measured value in °C	Safety system:	IP 65 (according to DIN 40 050)
Resolution:	1 K	Safety class:	I according to VDE 0411
Repeatability 24h:	0.1 % of measured value in °C +1K	Ambient temperature:	-10...+70 °C at housing
		Storage temperature:	-20...+70 °C
		Weight:	600 g
		CE-label:	complies with EU directives about electromagnetic immunity

## Reference numbers:

3 857 900	IS 50-LO/GL, 600...1800 °C, optical head and fibre optics
3 835 300	stainless steel sighting tube (140mm) with integrated air purge unit
3 820 370	PC-software series 50 with R232-adapter (2m)
3 836 830	ceramic tube open 300mm
3 836 840	ceramic tube open 600mm
3 836 850	ceramic tube closed 600mm

## Optical head:

distance a/mm	300	600	1200	2000	3000	5000
spot size M/mm	11.5	14	20	28	37	63

## Fibre optics:

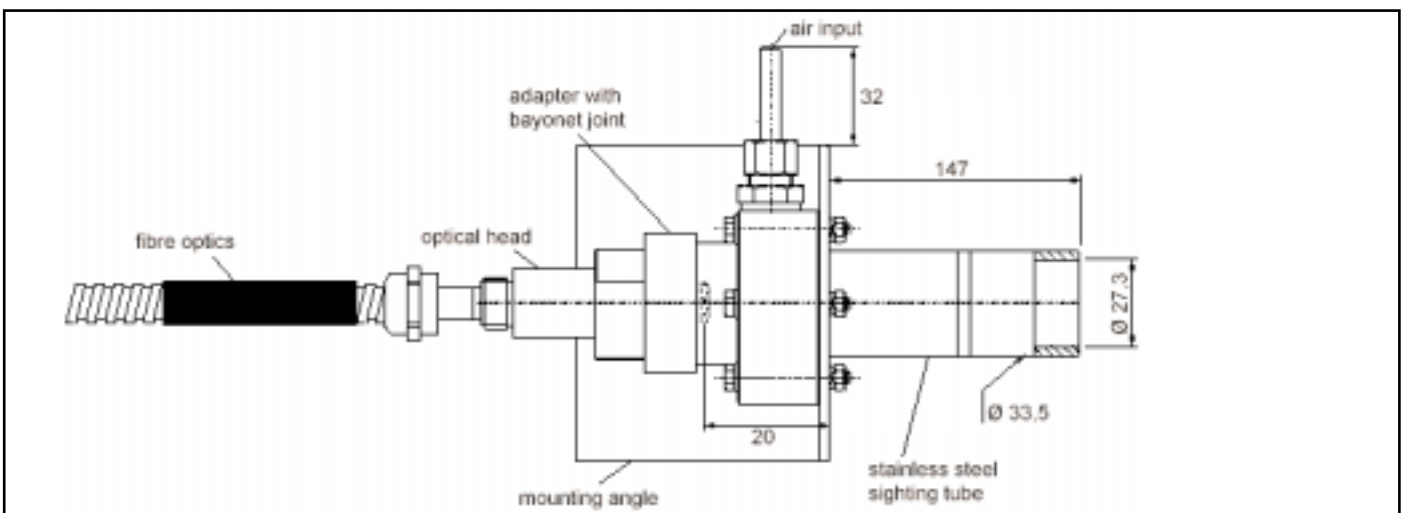
multi-fibre optics, stainless steel shielded,  
length: 5m (standard); optional: up to 30m in 2.5m-steps  
**optical head and fibre optics withstand up to 250°C**

## Important:

Instrument is delivered with optical head, fibre optics (5m) and analog cable (5m)

## Dimensions:

Optical head with sighting tube and air purge unit:



**Service Guarantee:** Our technical staff are always available to assist with your application.



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Specifications are subject to be changed without notice.

