



INSPACTO GL/ GLplus

Special instrument for the glass industry

The *INSPACTO GL/ GLplus* are especially designed for measuring glass surfaces. For this type of instrument a special close up lens for very small spot sizes is available (please refer to accessories). The *GLplus* instrument additionally comes with data memory to save measured values in real time. An USB-interface enables a permanent communication to a PC.

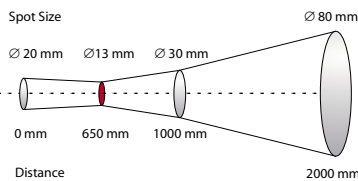
Typical applications:

- Container glass production
- Flat glass production
- High-tech ceramics production

Scope of delivery:

INSPACTO - with inspection sheet, user manual and battery (9 V), supply in carrying case

INSPACTO GL/ GLplus



150 ... 1800 °C
302 ... 3272 °F

NEW:
USB-interface*

* Ready for delivery from August 2007

Portable temperature measurement



In many parts of industry, temperature measurement is one of the most important physical measurement and this is also a basic requirement for controlling of the production processes in the glass industry.

Glass is transparent in the visible and in the near infrared spectral range. Its emission depends on the wavelength. In the spectral range around 5 µm is the emission is very high.

For that reason the temperature of glass can be reliably measured in this spectral range. The measured value corresponds to the surface temperature of the glass and is barely affected by reflections. To avoid interferences by the air in the sight path only the narrow parts of the complete spectral range are used.

The instruments *INSPACTO GL/ GLplus* do have a spectral response of 5.14 µm. Specially here the wastegas of the gas burners have no influence on the measurement.

Technical Data	INSPACTO GL	INSPACTO GLplus
Measuring range	150 ... 1800 °C	150 ... 1800 °C
Spectral range	5.14 µm	5.14 µm
Optics	50 : 1	50 : 1
Accuracy	1 % of the measuring value	1 % of the measuring value
Repeatability	0.5 % of the measuring value	0.5 % of the measuring value
Response time t ₉₀	150 ms	150 ms
Emissivity	adjustable, 20 ... 100 %	adjustable, 20 ... 100 %
Display resolution	0.1 K	0.1 K
Data storage	-	250 measuring values
Measuring functions	MAX, MIN, AVG, DIF, HOLD	MAX, MIN, AVG, DIF, HOLD
USB - interface	yes	yes
HI-alarm (acoustical), adjustable	yes	yes
Connection Software PortaWin	yes	yes
Socket for power supply	yes	yes
Ambient temperature	0 ... 55 °C	0 ... 55 °C
Order-No. with inspection sheet	7 640 180	7 640 185
Order-No. with works certificate*	7 640 181	7 640 186

* Works certificate with 2 standard calibration points at 200 and 900 °C