

L81 - STA Platinum Series / Jasco FTIR evolved gas analyzer



Since the beginning of the year 2003 Linseis has entered into a cooperation with Jasco Corporation of Japan, which is a leading manufacturer of FTIR spectrometers.

Both companies have developed a special heated transfer line with a maximum controlled temperature of 250°C.

This allows to transfer the evolved gases that are produced in the Platinum Series L81 balance, to the Jasco FTIR spectrometer.

The stainless steel 90 mm pathlength cell with ZnSe windows provides unparalleled sensitivity and contamination free operations.

Cell itself is independently thermostated from the transfer line; and can be easily removed from the sample compartment due to its unique plug in alignment free system.

The Jasco FTIR has an extremely good price performance ratio and offers a standard library with 100.000 known spectra as part of their package.

L81 - STA Platinum Series

Technical specifications Balance L81 Platinum Series

Accuracy:	+/- 1% Full scale +/- 10 μ g
Resolution:	1 μ g
Reproducibility:	+/- 0.5% Full scale +/- 10 μ g
Noise:	+/- 1 μ g
Drift:	+/-10 μ g/K +/- 1.5 μ g/mBar +/- 20 μ g/Day (short time) +/- 100 μ g/Month (long time)
Ranges:	10/100/1000mg
Maximum sample weight:	20g
Sample holder:	Al ₂ O ₃ , vertical
Temperature range:	RT..1000°C
Crucible size/volume	Diameter 7.5mm, height 7.5mm Usable volume app.. 200 μ l
Crucible material:	PtRh10 or Al ₂ O ₃
Sample atmosphere:	Gas (none corrosive, max. 0.3Bar), Vacuum (max. 10E-3 mBar)
Heating and cooling rate:	0.1..50K/min
Time for cooling down to 50°C:	< 30min
Thermocouple:	Type-S (PtRh10)
Resolution of temperature measurement:	0.1K
Accuracy of temperature measurement:	+/-1.5K +/-0.25% +/-1K (using substance calibration)
Power requirements:	230VAC, 50..60Hz, 350VA max.

Options:

- HDSC-Sensor:

Sensor type:	Type-S (PtRh10/Pt), or Type-K (NiCr/Ni)
Sensitivity:	app. 0.2 μ V/mW (Type-S) app. 1 μ V/mW (Type-K)
Noise:	app. +/- 50nV
Ranges:	+/- 50/100/200/500/1000 μ V

- Coupling for gas analysis GC or FTIR with heated capillary