Pirani Vacuum Logger with thread

A pressure data logger for **plasma** (hydrogen peroxide) autoclaves and very low temperature and extreme vacuum **freeze drying** processes with very high features. This is the version with a $\frac{1}{2}$ Gass thread for external mount on autoclaves.

Two combined sensors, one for extreme vacuum and one for higher pressures, up to 1200 mbar allow to obtain an incredible accuracy of $\pm 0,004$ and a resolution of 0,0001 mbar.

The software is Windows based and communicates by means of a USB interface (DiskInterface HS).

Battery is user replaceable and the data logger is provided with an Accredia (NIST equivalent) traceable certificate on different points.



Applications



Validation



Plasma (H2O2) Autoclave



Pharmaceutical



Laboratories



Medical



Healthcare



Sterilisation



Cosmetics



Main features

- Resists up to 85°C
- Available in two versions: standard and with ½ Gass threaded connector
- Low battery consumption for an extended battery life
- User replaceable battery (software shows battery status)
- Reference traceable calibration certificate included
- Available extended calibration from -80°C (order extra calibration points)

Plus

- Extremely high accuracy and precision in extreme vacuum
- Easy to use
- Battery with extremely extended life
- Printed reports compliant with health regulations and ISO (data are not editable in the software)

The system

The system is made up by:

- Pirani Vacuum Logger pressure data logger
- DiskInterface HS
- TS Manager or HumiPressureDisk software

Accessories

- TS Manager
- HumiPressureDisk
- DiskInterface HS

Technical specifications

Dimensions	84 h X 30 Ø (mm) - 31 Ø (mm) PEEK ring
Weight	160 g
Materials	Stainless steel AISI316L, PEEK, FKM (o-ring)
Temperature range	-80 °C ÷ +85 °C
Pressure range	0,001 mbar ÷ 1200 mbar absolute
Standard calibration points (pressure)	0,002 / 0,005 / 0,02 / 0,05 / 0,2 / 0,5 / 2 / 5 / 25 / 50 / 300 / 500 / atmospheric pressure mbar @ -20°C / amb. t. (25°C +/-10°C) / 50°C / 80°C
Extra calibration points (pressure)	Within the range 0.01 mbar ÷ 1200 mbar absolute
Pressure resolution	0,0001 mbar
Pressure accuracy	\pm 0,004 (0,001 ÷ 0,0049) / \pm 0,009 (0,005 ÷ 0,009) / \pm 0,015 (0,01 ÷ 0,09) / \pm 0,1 (0,1 ÷ 0,99) / \pm 0,5 (1 ÷ 4,99) / \pm 1,5 (5 ÷ 9,99) / \pm 2,5 (10 ÷ 99,99) / \pm 8 (100 ÷ Atm. P.); all values in mbar @25°C +/- 10°C
Memory (n. of acquisitions)	43.690
Acquisition step	From 1 every second up
Battery life	+19.000.000 acquisitions at 1 second step continuously (calculated time @25°C. Battery life may be shorter if used in low temperatures)
Accessories	DiskInterface HS

