

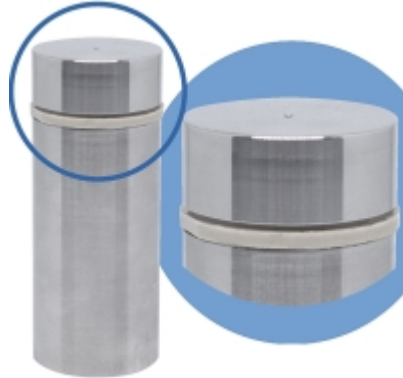
Pirani Vacuum Logger



Arguably the best data logger for **hydrogen peroxide autoclaves (plasma)** and for **freeze-drying processes** you can find today.

It has two sensors combined, one for the extreme vacuum and one for higher pressures, up to 1200 mbar: this allows to obtain an incredible accuracy of $\pm 0,004$ and a resolution of 0,0001 mbar.

Managed with Windows software and USB interface (DiskInterface HS). **Battery is user replaceable** and the data logger is **provided with an Accredia (NIST equivalent) traceable certificate** on different points.



Main features

- Resists up to 85°C
- Low battery consumption for an extended battery life
- User **replaceable battery (software shows battery status)**
- Accredia (NIST equivalent) traceable calibration certificate included
- Possibility to order **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

System's components are:

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

Accessories

- TS Manager
- HumiPressureDisk
- DiskInterface HS

Applications



Validation



Plasma (H₂O₂) Autoclave



Pharmaceutical



Laboratories



Medical



Healthcare



Sterilisation



Cosmetics



Freeze-drying

Technical specifications

| | |
|--|--|
| Dimensions | 73 h X 30 Ø (mm) - 31 Ø (mm) PEEK ring |
| Weight | 160 g |
| Materials | Stainless steel AISI316L, PEEK |
| 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 | ± 0,004 (0,001 ÷ 0,0049) / ± 0,009 (0,005 ÷ 0,009) / ± 0,015 (0,01 ÷ 0,09) / ± 0,1 (0,1 ÷ 0,99) / ± 0,5 (1 ÷ 4,99) / ± 1,5 (5 ÷ 9,99) / ± 2,5 (10 ÷ 99,99) / ± 8 (100 ÷ Atm. P.); all values in mbar |
| 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 |

