

# PressureDisk

PressureDisk is a temperature and pressure data logger from -40°C to 140°C (calibration from 25°C to 140°C) and from 0 to 5 bar with 20 mm length external probe, managed with Windows software and USB interface (DiskInterface HS, Multibay). **Battery is user replaceable** and the data logger is **provided with an Accredia (NIST equivalent) traceable certificate** on different points.

It is particularly indicated for autoclave and sterilisation processes validation.

The other versions of the data logger are:

- PressureDisk 05: pressure data logger from 0 to 5 bar
- PressureDisk V: pressure data logger for vacuum

There are also other models of high temperature data loggers, for temperature only and humidity too.

## Main features

- Completely food grade and waterproof
- Radial temperature sensor
- 1/2 Gass threaded connector to be screwed outside autoclave (the logger can still be used inside the autoclave though)
- **TS Manager software calculates lethality value (F0, PU, A0 ecc.)**
- Low battery consumption for an extended battery life
- User **replaceable battery (software shows battery status)**
- Accredia (NIST equivalent) traceable calibration certificate included
- Available **extended calibration from -40°C** (order extra calibration points)

## Plus

- Extremely high accuracy and precision for temperature and pressure: with an accuracy of  $\pm 0,1^{\circ}\text{C}$  these devices can be employed in any application involving pharmaceuticals, validation, laboratory and medical field
- High accuracy even outside the calibration range
- Fast response time thanks to the 3 mm diameter probe
- Printed reports compliant with health regulations and ISO (data are not editable in the software)

## The system

The system is made up by:

- PressureDisk temperature data logger
- DiskInterface HS or Universal Multibay
- HumiPressureDisk software or TS Manager software (compatible with the FDA 21 CFR Part 11 regulation)

## Accessories

- HumiPressureDisk
- TS Manager
- DiskInterface HS

## Applications



Validation



Sterilisation



Pharmaceutical



Medical



Healthcare



Laboratories



Food & Beverages

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## Technical specifications

|   |  |
|---|--|
| Dimensions                                | 43,22 h X 35 Ø (mm) - 55 (mm) total h with ½ Gass threaded part  |
| Radial probe dimensions                   | 20 l X 3 Ø (mm)  |
| Weight                                    | 145 gr   |
| Materials                                 | Stainless steel AISI316L, PEEK   |
| Temperature range                         | -40°C ÷ +140°C   |
| Standard calibration points (temperature) | 25/50/75/100/121/140°C   |
| Extra calibration points (temperature)    | Within the range -40 °C ÷ +140 °C  |
| Temperature resolution                    | 0,02 °C  |
| Temperature accuracy                      | ± 0,1 °C (within the calibration range)  |
| Pressure range                            | 0 bar ÷ 5 bar assoluti   |
| Standard calibration points (pressure)    | 50/1k/2k/4k absolute mbar  |
| Extra calibration points (pressure)       | Within the range 50 mbar ÷ 5 bar   |
| Pressure resolution                       | 2 mbar   |
| Pressure accuracy                         | ± 15 mbar  |
| Memory (n. of acquisitions)               | 27.264   |
| Acquisition step                          | From 1 every second up   |
| Protection degree                         | IP68   |
| Battery life                              | +6.000.000 acquisitions at 1 second step continuously (calculated time @25°C. Battery life may be shorter if used in low temperatures) |
| Software&Mobile App                       | HumiPressureDisk, TS Manager   |
| Accessories                               | DiskInterface HS, Multibay universale  |

