

Product Specifications



Overview

Barometric Pressure Logger

Precision Loggers™ Barometric Pressure Logger uses a next-generation miniature sensor to measure and record atmospheric pressure variations. Its measurement accuracy is 0.01 hPa RMS, allowing for incredibly detailed atmospheric analysis. This is sensitive enough to detect pressure changes equivalent to a change in altitude of less than 10 centimetres. Fully wireless, the logger communicates using Bluetooth® Low Energy (BLE) technology and recharges inductively.

General Specifications

Dimensions:	116 mm × 42 mm × 15 mm
Weight:	100 grams (approx.)
Battery:	2 000 mAh rechargeable lithium polymer
Charging System:	Wireless
Communication:	Bluetooth® 5
Mounting:	Magnetic
Clock Accuracy:	± 2 seconds per day
Sampling Methods:	Continuous or stop when full
Operating Temperature Range:	-10 °C to 60 °C
Computer Hardware Requirements:	Bluetooth LE adapter
Computer Software Requirements:	Precision Loggers application
Operating System Software Compatibility:	macOS and Windows. More support under development
Memory Size:	8 000 to 32 000 readings
Number of Channels:	1 to 2
Extra Channel Types:	Temperature
Approximate Logging Time on Full Battery:	> 1 month

Applications

- ◇ Detect changes in atmospheric pressure in cleanroom operations
- ◇ Monitoring the accuracy of liquid dispensing systems
- ◇ Analyze changes in spray-drying processes



Sensor Specifications

Media:	Air, non-condensing
Measurement Accuracy:	0.01 hPa RMS
Sensor Resolution:	24-bit
Absolute Pressure Range:	260 to 1260 hPa
High Overpressure Capability:	20x full scale