MEDICAL, PHARMACEUTICAL & VETERINARY TEMPERATURE & HUMIDITY

DATA LOGGERS

Fields of Application:

- Pharmaceutical Industries
- Laboratories
- Chemistry
- Life Science
- Hospitals
- Medical research institute/ Medical technology

1. ZOGLAB NANO-T-DP-07

Compact size, integrated with USB interface for convenient data collection.

Best for vaccine and chemical temperature monitoring.

Specifications:

- Temp range: -30C~70C
- T Accuracy: ±0.3C at (23C±2C); Other range ±0.5C.
- T resolution: 0.1C/0.2F
- Recording Circle: 7days(2017units); 15days(4323units);
- Recording interval: 5 minutes
- Start/End recording: Software or Magnets
- Alarm: Alarm mark + Led flashing
- Power: Rechargeable lithium cell (3.6V)
- Dimensions: 79*22*7.4mm LCD size: 21.5*5.5mm
- Weight: 12g
- Housing material: ABS+PC
- Protective class: IP64
- Certificates: CE, FCC, Factory calibration certificate
2. **SENONICS BLUEFIN**

Portable wireless temperature data logger.

Best for transport of sensitive/fragile items (medicines and organs).

**Specifications:**

- Temperature range: -20°C to +60°C
- Temperature accuracy (if calibrated): +/-0.1°C (within 15°C of calibration point)
- Temperature accuracy (+5°C to +60°C): see temperature accuracy plot
- Temperature resolution: 0.04°C
- Battery: Rechargeable Lithium Polymer
- Battery life: 6 months (before next charging)
- Physical size: 50mm x 68mm x 20mm
- PC application available on Windows XP, Vista, Windows 7, Windows 8 and Mac PC
- Wireless connection range: 12 meters
- Logging space: 40000 temperature samples
3. **SENONICS MINNOW**

Portable temperature data logger with large memory size.

Best for transport of sensitive/fragile items (medicines, chemicals and organs).

![SENONICS MINNOW](image)

**Specifications:**

- Temperature range: -30°C to 80°C
- Temperature accuracy (if calibrated): +/-0.1°C (within 5°C of calibration point)
- Temperature accuracy (-30°C to +80°C): see temperature accuracy plot
- Temperature resolution: 0.01°C
- 65520 Storage item
- Temperature alarm
- Battery: CR2540 coin cell
- Battery life: up to 4 years logging
- Physical size: 35mm x 60mm x 15mm
- PC application available on Windows XP, Vista, Windows 7, Windows 8 and Mac PC
- Logger identifier: 16 characters
4. **LASCAR EL-USB-1-LCD**

Portable, integrated with USB interface for convenient data collection.

Best for pharmaceutical fridge monitoring and transportation.

**Specifications:**

- Temperature Data Logger with LCD
- -35 to +80°C (-31 to +176°F) measurement range
- measures and stores up to 16,378 temperature readings
- USB interface for set-up and data download
- User-programmable alarm thresholds
- High contrast LCD, with two and a half digit temperature display function
- Immediate, delayed and push-to-start logging
- Calibration certificate available
- Protective class: IP67 standard
5. MSR 145

World's first miniaturised data logger to have integrated temperature, humidity, pressure, light and 3-axis acceleration sensors.

Specifications:

- Memory capacity: Over 2000000 measured values – expandable to over 1bn measured values with optional microSD card.
- Push-button: Set bookmark or start and stop recording.
- LED: blue: Record indicator red: Alarm indicator yellow: Battery change indicator
- Power supply: • Lithium-polymer battery, 260 mAh or 800 mAh. • The battery is charged via the USB connection
- Options: Charging station (USB hub) for 7 MSR145
- Interface: USB
- PC software: Free Setup, Reader, Viewer and Online software (Windows XP / Vista / 7 / 8) to record and evaluate data. All measured values can be rapidly transferred to a PC via USB connection both during the measurement operation and once the measurement task has been completed. Thanks to the integrated clock (RTC), data from as many MSR145 units as required can be synchronised and merged into a single data record.
- Operating conditions: Storage conditions: • Temperature -20...+65°C • Temperature +5...+45°C (ideal storage conditions for the battery) • 10...95% relative humidity, non-condensing
- Temperature: ext.: -10...+58°C, Accuracy: ±0.1°C (+5...+45°C) ±0.2°C (-10...+58°C) ext.: -55...+125°C, Accuracy: ±0.5°C (-10...+65°C) ±2°C (-55...+125°C) int.: -20...+65°C, Accuracy: ±0.5°C (-10...+65°C) ±2 °C (-55...+125°C)
- Standards: The MSR145 complies with EU-Directives RoHS / WEEE.
Temperature and humidity solutions for Pharmaceutical production

Temperature and humidity solutions for Pharmaceutical logistics

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World Wide Customer References

Johnson & Johnson

Abbott

UniversitätsSpital Zürich

University Hospital Zurich

AstraZeneca

zh aw

Zurich University of Applied Science

NOVARTIS

Nestlé

EMPA

Materials Science & Technology

medbase

Margiotti & Kroll

PÉDIATRICS, P.C.

RIJK ZWAAN

Stockholm University

Smart Automation Oy

Roche

ART, Swiss Federal Agroscope Research Institute