ELPRO

LIBERO W

Independent Monitoring Solution for Rooms & Equipment

LIBERO W is the most versatile solution for pharmacies, clinical sites and laboratories. Being wireless and battery operated, there is no need for a complicated installation. Place the sensor in the refrigerator or the piece of equipment you want to monitor, start the LIBERO W base station and you are up and running in no time. Use a preconfigured device which is ready to go or take advantage of different reporting options and customize the device exactly to your application. For a safe and regular readout the device features a reminder function and an integrated USB cable. Peace of mind for your critical environment.
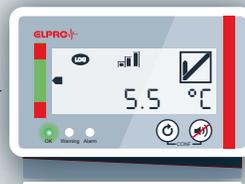
Customizable PDF reports
Embedded raw data.
For various applications.

min/max   status   all data   events

LIBERO W Base
Audio-visual warnings and alarms.
Stand or wallmount.
Integrated USB cable.

LIBERO W Sensor
Status LEDs.
Buffer memory for uninterrupted measurement.

we prove it.

- **Simple installation without cables**
- **Independent of internet and external power supply**
- **Uninterrupted record of measuring values**
- **Automatic and reliable min/max temperature list**
- **100 % compliance for pharmacies and clinical sites**

Technical Specifications LIBERO W

Type	Wireless PDF datalogger consisting of sensor and base station
Application area	Temperature monitoring for refrigerators, transport boxes, incubators or climate chambers
Recording options and mode	Multiple use: loop mode or Start-Stop mode
Type of probe	Internal NTC
Measurement range (sensor)	-35 °C..+50 °C
Measurement accuracy	±1.0 °C in the range between -35.0 °C and -10.1 °C ±0.5 °C in the range between -10.0 °C and -0.1 °C ±0.4 °C in the range between 0.0 °C and +25.0 °C ±0.8 °C in the range between +25.1 °C and +50.0 °C
Operating range (base station)	0 °C..+50 °C
Measurement interval	1 min to 60 min
Run-time (memory capacity)	2 years using 15 min measurement interval (70'000 measuring points in the base station and up to 2'200 measuring points as buffer in the sensor)
Exchangeable standard batteries	Base station: 3 × alkaline AAA | Sensor: 2 × alkaline AAA or 2 × Lithium AAA (for freezer applications)
Certificate	Ilac / SCS / DAkkS / NIST / UKAS / ISO 17025 traceable Production Calibration Certificate
Programmable alarms	- 8 temperature alarm levels with single or cumulative alarm delays - 2 temperature thresholds with alarm delay
Programmable warnings	Temperature warning | Read-out reminder | Calibration reminder | No connection warning
Display	Multifunction LCD, size: 32 × 80 mm (1.26 × 3.15 inch)
Display functionality	- Status: OK, WARNING, ALARM - Wireless connection strength - Current temperature measurement - Battery replacement due - Indication on actual temperature zone - Calibration due - Audio alarm off - Read-out due
Report	Built-in PDF file generator automatically establishes an evaluation report with embedded data upon connection to an USB port. Complies with the ISO standard 19005-1 Document Management for the long-term preservation of electronic documents (PDF/A) and FDA 21 CFR Part 11.
	4 report types: Daily min/max report | Status report | All data report | Event report
Warning | alarm signaling	Audio-visual warnings and alarms (LED, buzzer)
Case | dimension | weight	Base station: ABS plastic material | 115 × 82.5 × 27 mm (4.53 × 3.25 × 1.06 inch) | 195 g (6.88 oz) Sensor: ABS plastic material | Ø 73 mm (2.87 inch), 17 mm (0.67 inch) | 70 g (2.47 oz)
Protection class	Base station: IP 54 / NEMA 13 | Sensor: IP 64 / NEMA 6
Data logger configuration and additional analysis software	liberoCONFIG software to create, store and manage individual settings in a data logger profile. elproVIEWER software to access and export embedded data of PDF report, for data analysis and comprehensive report features.
Technical data wireless connection	Connection between sensor and base station: wireless technology standard to exchange data over short distances in the range of 2.4 GHz.
Conformity	CE | FCC | Technical Conformity Mark

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