



**LIBERO W**

- Temperature monitoring
- Ready to use
- 100% compliant



TECHNICAL SPECIFICATIONS LIBERO W

## 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.



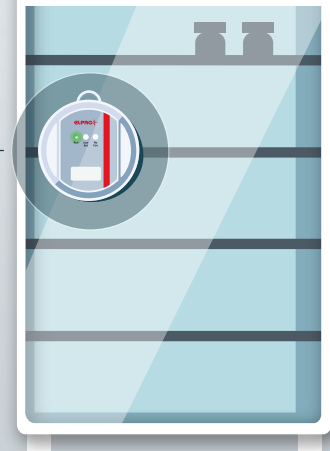
#### LIBERO W Base

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

<b>Type</b>	Wireless PDF datalogger consisting of sensor and base station	
<b>Application area</b>	Temperature monitoring for refrigerators, transport boxes, incubators or climate chambers	
<b>Recording options and mode</b>	Multiple use: loop mode or Start-Stop mode	
<b>Type of probe</b>	Internal NTC	
<b>Measurement range (sensor)</b>	-35 °C..+50 °C	
<b>Measurement accuracy</b>	±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	
<b>Operating range (base station)</b>	0 °C..+50 °C	
<b>Measurement interval</b>	1 min to 60 min	
<b>Run-time (memory capacity)</b>	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)	
<b>Exchangeable standard batteries</b>	Base station: 3 × alkaline AAA   Sensor: 2 × alkaline AAA or 2 × Lithium AAA (for freezer applications)	
<b>Certificate</b>	Ilac/SCS/DAKKS/NIST/UKAS/ISO 17025 traceable Production Calibration Certificate	
<b>Programmable alarms</b>	- 8 temperature alarm levels with single or cumulative alarm delays - 2 temperature thresholds with alarm delay	
<b>Programmable warnings</b>	Temperature warning   Read-out reminder   Calibration reminder   No connection warning	
<b>Display</b>	Multifunction LCD, size: 32 × 80 mm (1.26 × 3.15 inch)	
<b>Display functionality</b>	- Status: OK, WARNING, ALARM - Current temperature measurement - Indication on actual temperature zone - Audio alarm off - Wireless connection strength - Battery replacement due - Calibration due - Read-out due	
<b>Report</b>	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	
<b>Warning   alarm signaling</b>	Audio-visual warnings and alarms (LED, buzzer)	
<b>Case   dimension   weight</b>	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)	
<b>Protection class</b>	Base station: IP 54 / NEMA 13   Sensor: IP 67 / NEMA 6	
<b>Data logger configuration and additional analysis software</b>	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.	
<b>Technical data wireless connection</b>	Connection between sensor and base station: wireless technology standard to exchange data over short distances in the range of 2.4 GHz.	
<b>Conformity</b>	CE   FCC   Technical Conformity Mark	