



#### 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.



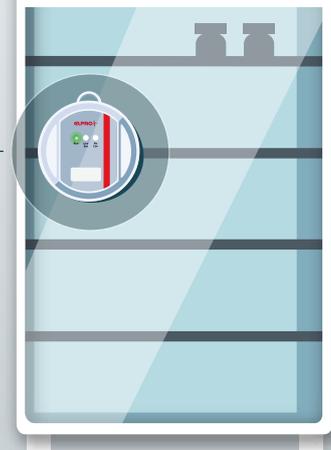
#### LIBERO W Base

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>  | NTC probe  |
| <b>Measurement range (sensor)</b>                                 | -10 °C..+50 °C   |
| <b>Measurement accuracy</b>                                       | ±0.5 °C in the range between -10.0 °C and -0.1 °C<br>±0.4 °C in the range between 0.0 °C and +25.0 °C<br>±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>Memory capacity (run time)</b>                                 | 2 years using 15 min measurement interval<br>(70'000 measuring points in the base station and up to 1'000 measuring points as buffer in the sensor)  |
| <b>Exchangeable standard batteries</b>                            | Base station: 3 × alkaline AAA   Sensor: 2 × alkaline AAA  |
| <b>Certificate</b>  | Ilac / NIST / ISO 17025 traceable Production Calibration Certificate   |
| <b>Programmable alarms</b>  | - 8 temperature alarm levels with single or cumulative alarm delays<br>- 2 temperature thresholds with alarm delay   |
| <b>Programmable warnings</b>                                      | Temperature warning delay   Read-out reminder   Calibration reminder   |
| <b>Display</b>  | Multifunction LCD, size: 32 × 80 mm (1.26 × 3.15 inch)   |
| <b>Display functionality</b>                                      | - Status: OK, WARNING, ALARM<br>- Current temperature measurement<br>- Indication on actual temperature zone<br>- Audio alarm off<br>- Wireless connection strength<br>- Battery replacement due<br>- Calibration due<br>- 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.<br>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)<br>Sensor: ABS plastic material   Ø 86 mm (3.39 inch), 25 mm (0.98 inch)   70 g (2.47 oz)  |
| <b>Protection class</b>   | Base station: IP 54 / NEMA 13   Sensor: IP 64 / 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.<br>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   |