

# BlueWave Bendable 2 mm



**Bluetooth** temperature data logger with range  $-40^{\circ}\text{C} \div +140^{\circ}\text{C}$  with one channel with 30 cm bendable probe and 1,5 mm diameter. Receive data directly on your laptop (Bluetooth 5.0 required) or on your smartphone (\*) without additional accessories. Very easy to use: select the devices you need, start the acquisition, see the data in real time. You will no longer need cables and receivers or cumbersome interfaces and thanks to TS Manager 3 you can immediately analyze data and generate advanced reports.

The **battery** is **user replaceable** and is supplied with an **Accredia traceable calibration certificate**.

\* mobile available in Q4 2025.



## Main features

- No receiver or accessories needed
- Live data transmission
- With bendable probe for easy positioning
- Completely food grade and waterproof
- **All software calculate lethality value (F0, PU, A0 ecc.)**
- Low battery consumption for an extended battery life (if used below  $-20^{\circ}\text{C}$  the battery life could be significantly reduced)
- User replaceable battery (**software shows battery status**)
- Extremely easy to use
- Possibility of application to any type of packaging
- Accredia (NIST equivalent) traceable calibration certificate included
- Available **extended calibration from  $-40^{\circ}\text{C}$**  (order extra calibration points; in case of wide calibration range the accuracy might be worse. Request the possible calibration ranges in advance)

## Plus

- Real-time transmission
- Extreme ease of use
- Extremely high accuracy and precision: with an accuracy of  $\pm 0,1^{\circ}\text{C}$  these devices can be employed in any application involving pharmaceuticals, food&beverages, validation, laboratory and medical field
- High accuracy even outside the calibration range
- Fast response time thanks to the 3 mm diameter probe
- Printed reports compliant with health regulations, HACCP and ISO

## The system

The system is made up by:

- BlueWave Bendable temperature data logger
- TS Manager software (compatible with the FDA 21 CFR Part 11, Annex 11, GAMP 5 regulations)
- DiskInterface HS or Multibay (optional)

## Applications



Validation



Sterilisation



Pharmaceutical



Healthcare



Medical



Cosmetics



Laboratories



Food & Beverages



Pasteurisation

## Accessories

- TS Manager 3
- DiskInterface HS
- Universal multibay
- BlueWave battery kit

## Technical specifications

|   |  |
|---|--|
| Dimensions                                | 70 h X 23 Ø (mm)   |
| Weight                                    | 74 g   |
| Probe dimensions                          | Probe base dimensions 3 h X 14 Ø (mm) - Bendable probe 300/on demand I X 2 Ø (mm) (first and last 15 mm cannot be bent)  |
| Materials                                 | Stainless steel AISI316L, PEEK   |
| Temperature range                         | -40°C ÷ +140°C   |
| Standard calibration points (temperature) | 25/50/75/100/121/140°C   |
| Extra calibration points (temperature)    | Within the range -40 °C ÷ +140 °C  |
| Temperature resolution                    | 0,01 °C  |
| Temperature accuracy                      | ± 0,1 °C (within the calibration range)  |
| Memory (n. of acquisitions)               | 131.000  |
| Acquisition step                          | From 1 every second up, with 1 second steps  |
| Protection degree                         | IP68   |
| Battery type                              | 1 x 1/2AA size 3,6 volt  |
| Battery life                              | +4.000.000 acquisitions at 1 second step continuously (calculated time @25°C. Battery life may be shorter if used in low temperatures)   |
| Communication                             | Bluetooth BLE 5.0  |
| Frequency                                 | 2.4 GHz  |
| It requires                               | Windows Laptop Bluetooth 5.0   |
| Real time mode                            | High Performance (secure reception, greater use of the battery), Normal (possibility of losing some data in real time, less use of the battery), standby (waiting for mission start) |
| Software&Mobile App                       | TS Manager 3, Tecno Calib  |
| Accessories                               | DiskInterface HS, Multibay universale  |