

# BlueWave T



**Bluetooth** temperature data logger with range  $-40^{\circ}\text{C} \div +140^{\circ}\text{C}$  with one channel with rigid probe of different lengths (20/50/100/150 mm and on demand) and 3 mm in 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 different lengths rigid probe for penetration
- 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 T temperature data logger
- TS Manager software (compatible with the FDA 21 CFR Part 11, Annex 11, GAMP 5 regulations)

## Applications



Validation



Sterilisation



Pharmaceutical



Healthcare



Medical



Cosmetics



Laboratories



Food & Beverages



Pasteurisation

## Accessories

- TS Manager 3
- DiskInterface HS
- Universal multibay
- Fastening system
- Locking bolt
- BlueWave battery kit

## Technical specifications

Dimensions	70 h X 23 Ø (mm)
Probe dimensions	Probe base dimensions 3 h X 14 Ø (mm) - Probe 20/50/100/150/on demand l X 3 Ø (mm) (l on demand: min. 12 mm / max. 175 mm. For longer probes ask for quotation)
Weight	74 g
Materials	Stainless steel AISI316L, PEEK
Temperature range	-40°C ÷ +140°C
Sensor 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