



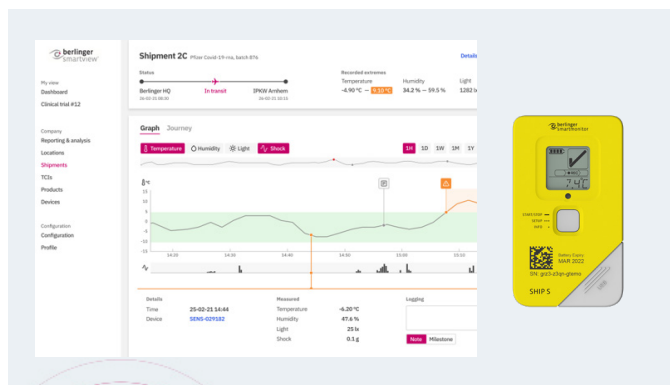
# Supply Chain Visibility made easy, End-to-End

The Berlinger SmartMonitor® by Sensitech enables global, real-time end-to-end location tracking with validated, GxP-compliant temperature monitoring. Tailored for life sciences, the SmartMonitor solution proactively notifies logistics and partners, providing in-transit and stationary visibility and instant alerts, while speeding product release by automating data sent to the cloud. The SmartMonitor solution adds intelligent visibility to your shipments and sites. It enables validated, GxP-compliant shipment accept/ reject decisions. Built-in, rechargeable battery management simplifies device management. The solution provides crucial insights into what occurred during shipment and storing to support root cause analysis.

## In-transit Monitoring with SmartMonitor SHIP S

### Key Features and Benefits

- Modular, real-time in-transit monitoring with validated temperature and light sensors.
- Product-level monitoring via parent-child intercommunication (BLE) with gateway devices (SmartMonitor SHIP L).
- Standalone monitoring device for shipments with easy data retrieval through USB readout functionality.
- Lithium coin cell (no IATA Dangerous Goods label required).
- Streams secure cGxP-compliant data to SmartView when connected via BLE intercommunication for seamless quality and product release workflows.
- Fully compliant with FDA 21 CFR Part 11, GAMP5, and more.



### SmartMonitor for In-transit



#### SmartMonitor SHIP L

Modular Real-time Monitoring Device for Shipments

#### SmartMonitor SHIP S

Modular Real-time as Child or Standalone Monitoring Device for Shipments

SmartMonitor SHIP S Specifications	
<b>Recording Option</b>	Single-Use, Real-time with BLE Intercommunication
<b>Certified Modes of Transport</b>	Air, Ocean, Road, Rail (Airline approvals upon request)
<b>Sensor Types</b>	Temperature, Light
<b>Temperature Measurement Range</b>	-30°C to +75°C (Other ranges, SmartSensor can be used)
<b>Temperature Accuracy Range</b>	±0.5°C in range -10°C to +45°C / ±1.0°C in ranges -40°C to -10°C and +45°C to +75°C
<b>Alarms</b>	Up to 24 individually programmable alarm/warning rules, for temperature
<b>Remote Device Configuration</b>	Automatic when connected via BLE intercommunication
<b>Temperature Accuracy Certification</b>	A sampling lot acceptance test (Berlinger Standard Calibration) is performed and documented with a Certificate of Conformance per batch; Individual device calibration, including Certificate of Calibration, is available upon request
<b>Temperature Sensor Sample Interval</b>	5 to 240 minutes (5 minute increments)
<b>Temperature Measurement Responsiveness</b>	Complies with EN12830
<b>Start Up Delay</b>	0 minutes to 4 hours
<b>Light Sensor Range</b>	Light intensity treshold detection 0.1 to 1000 lux
<b>Communication</b>	Bluetooth Low Energy (BLE)
<b>Memory</b>	120 days @ 10 minutes measurement interval (all sensors active)
<b>Battery Type</b>	Non-rechargeable, Lithium coin cell
<b>Shelf Life</b>	12 months, Single-use
<b>Operating Life</b>	Typical battery run time 120 days with BLE (at 1 hour cloud sychronization interval)
<b>Dimensions and Weight</b>	100 x 75.5 x 12 mm, 50 g
<b>Environmental Rating</b>	IP65
<b>Regulatory</b>	CE (RED), FCC, IC 21 CFR Part 11, GAMP5, IEC 62368-1, RTCA DO-160, RoHS
<b>Display Indicators</b>	LCD screen icons: Ready to Start, Running, Stopped, Alarm status (OK (✓) and Alarm (✗), Warning, Start-up Delay, Uploading to Cloud, Upload to Cloud Complete, Bluetooth En-/Disabled, Battery Status; Static or Scrolling Text to Support User
<b>Secondary Download</b>	USB type A read-out
<b>Software Interfaces</b>	SmartView Platform
<b>Cold Chain PDF Report</b>	PDF generated by cloud software, Manual read-out option via USB

Sensitech has performed all necessary testing and can provide documentation supporting our compliance at your request.