SpotBot BLE Impact Recorder

- **Simultaneous monitoring of multiple crucial parameters like shock, tilt, humidity, and temperature**

- **Up to 2 years battery lifetime**

- **Cost-effective, simple, and robust**

- **Free and user-friendly mobile application**

The SpotBot BLE is a simple, all-purpose and reliable way to make the supply chain transparent. Once attached to the shipment, the SpotBot BLE measures and records temperature, humidity, tilt, and shock, with the data visualised through a mobile application.

The limits of each parameter can be individually configured, and any violation is traceable (with time/date stamp) and clearly assignable throughout the entire supply chain.
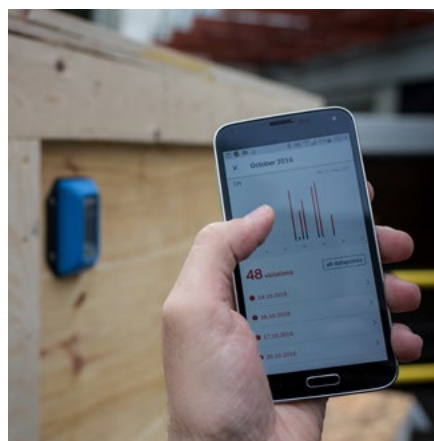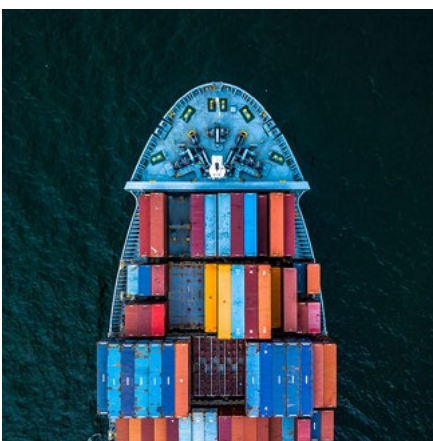
The SpotBot BLE gives the initiator of a delivery peace of mind and supply chain transparency. In the event that a parameter threshold is exceeded, the SpotBot BLE provides verifiable proof and a reliable indication of possible primary and secondary damage.

Individual configurability, ease of use and integration with little effort and without prior knowledge of the processes of a logistics chain.

It also provides an added value for every logistical effort. It creates trust between partners and provides important data for the optimisation of logistics processes. If there is no parameter violation, the SpotBot BLE is the evidence of a failure-free transport chain.

Specifications

Dimensions (LxWxH)	101.8mm x 91mm x 25mm
Weight	100g
Power Supply	CR 123A Lithium Battery, 1400mAh
Battery Lifetime	2 years (10min measuring cycle, +25°C)
Enclosure Protection Class	IP 54
Electrical Protection Class	III
Measuring Interval	1min to 4hrs (selectable)
Memory Capacity	2 years (15min measuring cycle, typical)

Operating Range

Operating Temperature Range	-25°C to +80°C
Storage Temperature Range	0°C to +40°C
Humidity Range	0°% RH to 100° RH (non-condensing)
Shock / Acceleration Range	±8g per axis / ±13.8g modulus

Accuracy

Temperature	0°C to +60°C: ±0.5°C / -25°C to +80°C: ±1°C
Humidity	±5% RH typical; ±10% RH maximum; (20% RH to 80% RH at 25°C)
Shock / Acceleration	±10%

Communication

Bluetooth Low Energy Range	Up to 40m (dependent on external influences)

User Interface

App	Free smartphone application for configuration and data analysis
Status LED	Indication of device status, battery level and communication

Resolution

Temp / Humidity / Shock / Acceleration	0.5°C / 1% RH / 0.1g / 0.1g