

Monitoring the integrity of your cold chain and calculating **remaining product shelf-life in real time** every step of the way - **Safeguarding as a Service**



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This advanced and multi-use Bluetooth tracer is designed to offer accurate and efficient monitoring in demanding environments, with reliability and flexibility for sectors such as biopharma, healthcare, and logistics. Bluetooth 5 connectivity enables wireless communication for easy data transfer. The QTA Tracer offers long-term logging without the need for frequent downloads, making it ideal for continuous use. One of its most outstanding features is its ability to adapt to specific regulatory requirements, increasing the safety and reliability of monitored products. The event-driven logging monitors key parameters such as temperature, light, and motion, providing detailed insight into the condition of the product throughout the supply chain. The QTA Tracer offers high precision with a temperature accuracy of $\pm 0.1^{\circ}\text{C}$ ensuring reliable measurements with market leading accuracy. To ensure the functionality in demanding environments, the QTA Tracer is completely dust and water resistant with IP67 classification.

Our Safeguarding Shelf-life Control System accurately measures the temperature and condition throughout the life cycle of eg biological and pharmaceutical products. The QTA Tracer can analyze stability data and calculate the remaining shelf-life of the product. The system is unique since it is programmed according to the exact specifications of each product, giving the system the ability to communicate in real time the durability of the specific individual product that the tracer is monitoring. This means that the system can display how much time remains with maintained functionality and safe use of the product in order to minimize unnecessary waste.

To enhance the user experience, the device is equipped with a clear and easy-to-understand RGB LED that provides instant visual feedback on status of the monitored product. Product status is always available for the receiver of the QTA Tracer regardless of connectivity. The QTA Tracer works off-line and is easily started from mobile devices or PC application offering seamless monitoring solution that is easy to integrate into existing systems.

The QTA Tracer is classified as a MedTech Device, MDD Class IIa. The classification means that the QTA Tracer is designed and certified to meet the strict international safety and quality requirements set for medical devices. A clear benefit for any user; local or international with deviation reporting and compliance.

With its reusable capacity and advanced technical features, the QTA Tracer temperature monitoring device is the optimal solution for improving operational efficiency, protecting sensitive products, and ensuring patient safety in various critical environments.

For more information:



Medical device traceability	QTA Tracer (MDD Class IIa) Unique ID number
Measurement interval	Every minute, user configurable sample rate $\pm 0.1^{\circ}\text{C}$ (Maximum) -20°C to $+50^{\circ}\text{C}$ $\pm 0.15^{\circ}\text{C}$ (Maximum) - 40°C to $+70^{\circ}\text{C}$ MKT calculation (Mean Kinetic Temperature)
Measurement accuracy	
Measurement resolution	0.0078 $^{\circ}\text{C}$
Measurement range	Operating temperature -40°C to $+70^{\circ}\text{C}$
Temperature sensor	Digital
Light sensor	Measure from 0.01 lux up to 83k lux
Accelerometer	Motion detection
Storage	220 000 data points
Battery life	3 years, factory replaceable, not rechargeable
Battery type	Coin cell
Calibration	Calibration Standard NIST Calibration Option ISO17025, 1-5 points calibration Calibration certificate Standard or Option
Communication	Bluetooth 5, NFC tag with Bluetooth ID, Mobile/and or PC application
Shelf-life calculation delay	User configurable delay based on time or temperature - all data events are stored from log start.
Case Dimension Weigh IP class	ABS Plastic material 14 mm x 52 mm x 57 mm 30 g IP67 (water resistance)
Device components	Recyclable Plastic (Medical, Biocompatibility ISO10993, US Pharmacopeia Class VI approved) Rubber Electronics
Packaging material	Corrugated cardboard
Conformity	CE, FCC, RoHS, WEEE
Standards and guidelines	Gamp5, ISBT 128, ISO14971:2020
Certification	ISO9001:2015, ISO13485:2016, Medical Device Directive class IIa
Validation of scanned data	Preconfigured for transfusion products according to ISBT 128 or any other standard to be configured
QTA tracer system	QTA Tracer System create, store and manage individual profiles for the QTA Tracer. This allows a safe and quick profile selection. The QTA Tracer System enables data export in pdf, csv or Excel formats. All configuration is done in the Tridentify QTA Web Portal.

