



# Transport Data Logger | TDL110

## Transparency for your Supply Chain

**PART NO | 0 273 600 024 001**

By being attached to the shipment and measuring and recording relevant parameters like temperature, humidity, tilt, and shock, the TDL makes the delivery process of goods visible and traceable. These measurements are then documented and visualized through a mobile application. Since the limits of each parameter can be individually configured, any transgression of these limits is traceable and clearly assignable to the stations throughout the entire supply chain.

### MEASUREMENT PARAMETERS



Shock



Humidity



Temperature



Tilt

### APPLICATION ADVANTAGES

- ▶ Creates transparency within the entire supply chain
- ▶ Simplified configuration and visualization via mobile application
- ▶ Battery with a long lifetime resulting in less handling effort



### DEVICE SPECIFICATION

- ▶ Dimension (L x W x H) 101.8 mm x 91 mm x 25 mm
- ▶ Weight 100 g
- ▶ Power supply CR 123A Lithium Battery, 1400 mAh
- ▶ Battery lifetime 2 Years (10 min. measuring cycle, +25 °C)
- ▶ Enclosure protection class IP 54
- ▶ Electrical protection class III
- ▶ Measuring interval 1 min ... 4 hours (selectable)
- ▶ Memory capacity 2 Years (15 min. measuring cycle, typical usage)
- ▶ Certification CE, FCC, ISCED, SRRRC, MIC, SIRIM, IMDA, ACMA, NTC, NBTC | further on request

### OPERATING CONDITIONS

- ▶ Operating temperature range -25 °C ... +80 °C
- ▶ Storage temperature range 0 °C ... +40 °C
- ▶ Humidity range 0 % rH ... 100 % rH (non condensing)
- ▶ Shock / Acceleration range ±8 g per axis  
±13.8 g three-dimensional

## ACCURACY

- ▶ Temperature  $\pm 0.5\text{ }^{\circ}\text{C}$  (0 °C ... +60 °C)  
 $\pm 1\text{ }^{\circ}\text{C}$  (-25 °C ... +80 °C)
- ▶ Humidity  $\pm 5\text{ \% rH}$  typical  
 $\pm 10\text{ \% rH}$  maximum  
(20 % rH ... 80 % rH at 25 °C)
- ▶ Shock / Acceleration  $\pm 10\text{ \%}$

## RESOLUTION

- ▶ Temperature 0.5 °C
- ▶ Humidity 1% rH
- ▶ Shock / Acceleration 0.1 g

## COMMUNICATION

- ▶ Bluetooth Low Energy
- ▶ Range up to 40 m (dependent on external influences)

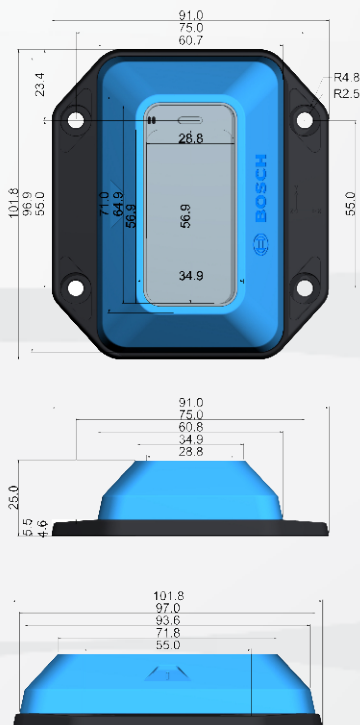
## USER INTERFACE

- ▶ App free smartphone application for configuration and data analysis
- ▶ Status LED indication of device status, battery level and communication

## DELIVERY SCOPE

- ▶ Device & built-in battery
- ▶ Quick Start Guide
- ▶ Packaging unit consists of 10 devices

## DIMENSIONAL DRAWING



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