



BOSCH
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TDL110 | Transport Data Logger

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 an outstandingly 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 cycle | 1 min ... 4 hours (selectable) |
| ▶ Memory Capacity | 2 Years (15 min. measuring cycle, typical usage) |

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



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RESOLUTION

- ▶ Temperature
 - $0.5\text{ }^{\circ}\text{C}$
- ▶ Humidity
 - 1 \% rH
- ▶ Shock / Acceleration
 - 0.1 g

COMMUNICATION

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

USER INTERFACE

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

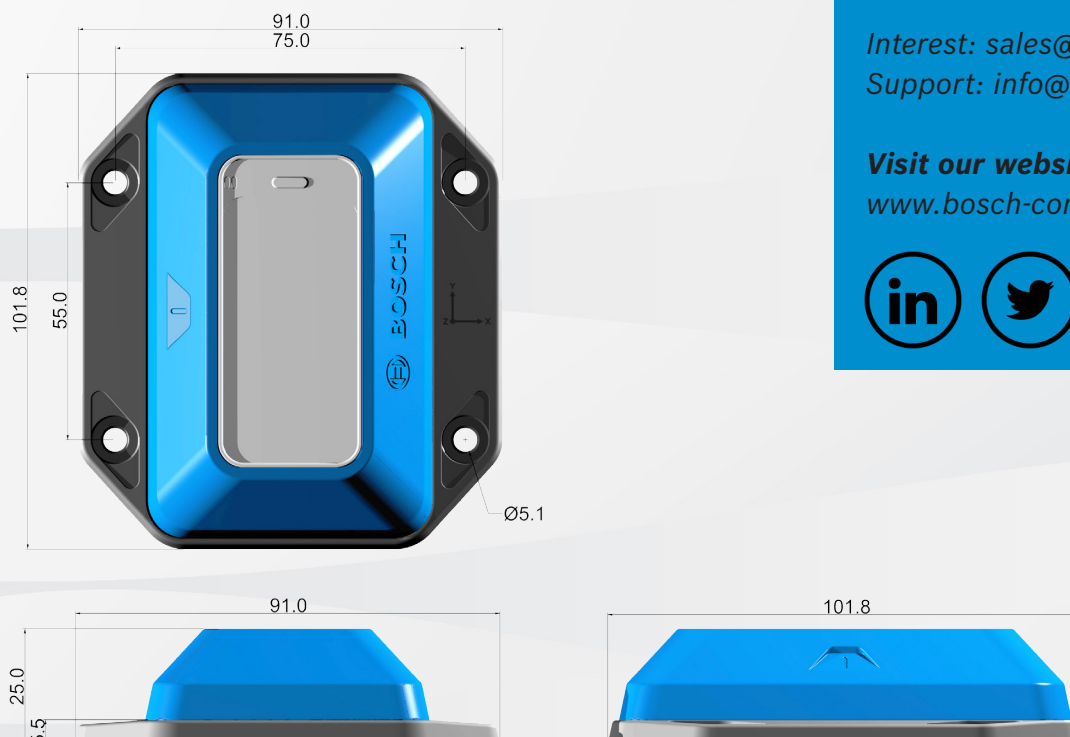
INCLUDED DELIVERIES

- ▶ Device in its housing with built-in battery
- ▶ Quick Start Guide

DELIVERY CONDITIONS

- ▶ Packaging unit consists of 10 devices

DIMENSIONAL DRAWING



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