

BTD-K Device Manual



Temperature



Movement

Vibration

Humidity

Intrusion detecti



Find out more about the BTD-K.

-  Introduction
-  Device Components
-  Activate, Pair and Mount Device
-  Unmount and Deactivate Device
-  Return Device
-  BTD-K Technical Details

Introduction

1

The BT-D-K monitors temperature and humidity. It provides you with a second measurement right next to the cargo.

2

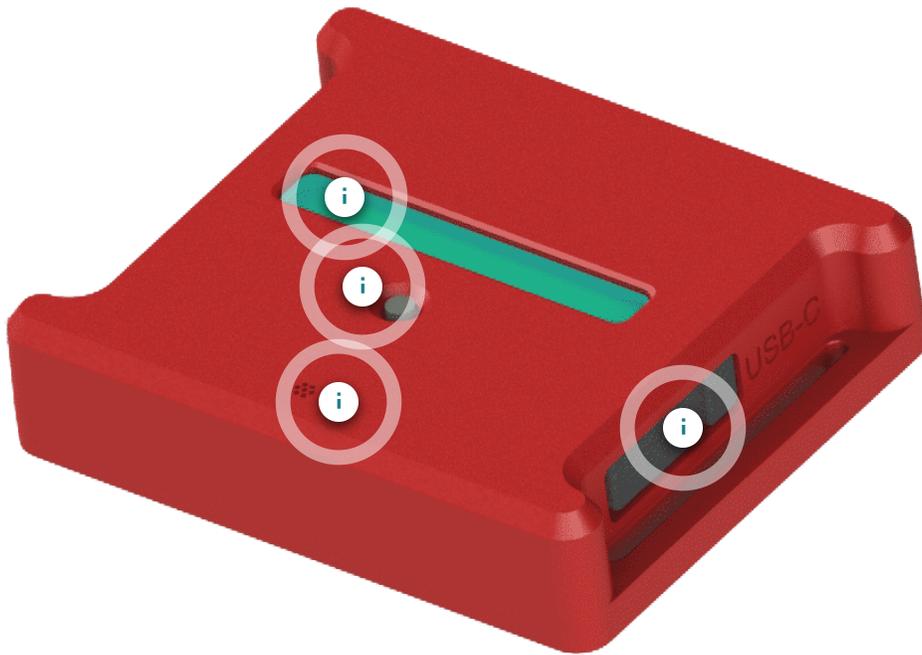
The BT-D-K sends all collected data via Bluetooth to the parent tracker (A-Type, B-Type, or T-Type).

3

The parent tracker of the BT-D-K transmits all data to the platform via the cellular network.

Device Components

Check out all BT-D-K components on the graphic below:





Display

Helps you to find out in which state the tracker is. It can show:

- off
- no conn (= no connection)
- serial number of the parent tracker (= device has been successfully paired with the parent tracker)



USB-C charging port

USB-C port charging cable to recharge the BTD-K device. Recharging may take up to four hours. When you connect the device to a charger it will turn on and display the battery status.



Mode Button

Turn ON

Press the “MODE” button briefly. The display will turn on and show “NO CONN”. This means that the BTD has been switched on but is not paired with any device.

Turn OFF

Press and hold “MODE” button until you can read in the display "OFF".

Cycle through information

Briefly press "Mode" button repeatedly. The following info will be shown one after the other:

- Serial number of the parent tracker to which the BTD is connected - If the device is not connected, it shows “NO CONN”
- Time until the next communication in seconds (only shown if connected)
- Current temperature
- Current humidity
- Current device firmware
- Current battery status

- BTD-K serial number
- Battery charging progress

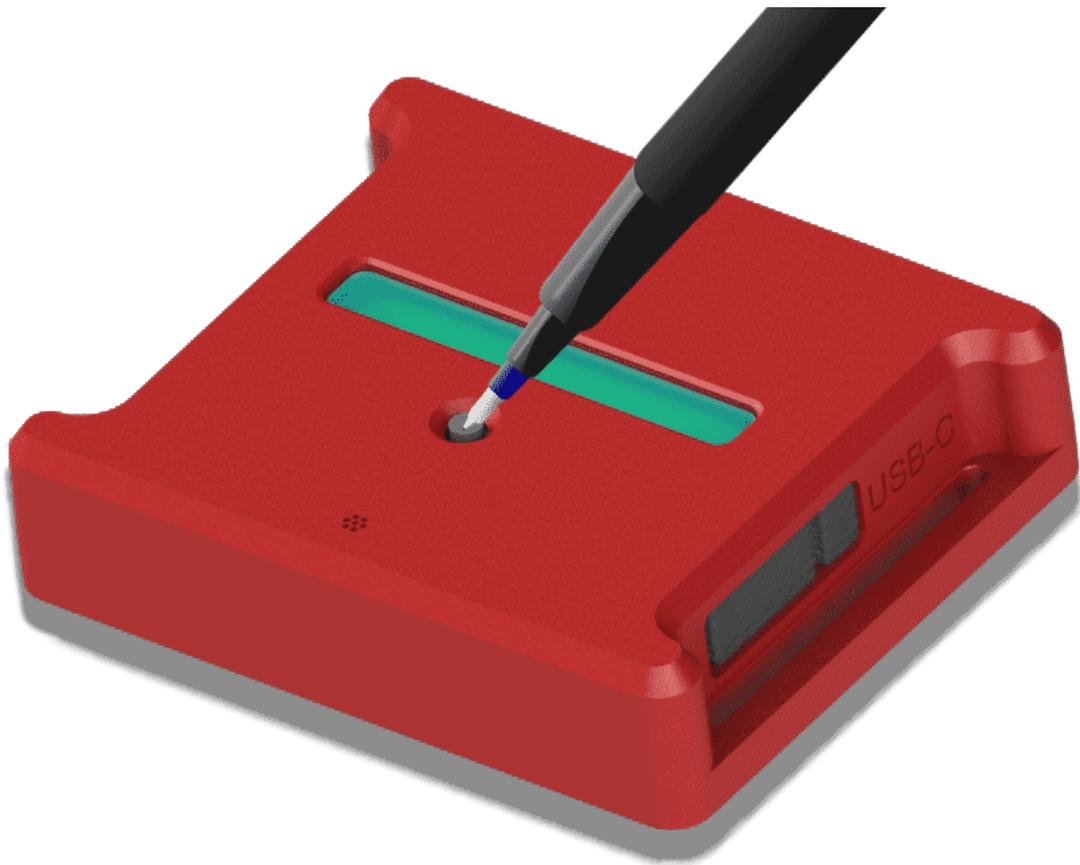


Sensors

- Temperature
- Humidity

Activate, Pair and Mount Device

You must activate the device and pair it with the parent tracker **before** you mount the device inside the container.



Activate the BT-D-K

1. Briefly press the the “MODE” button.

The display will turn on and show “NO CONN”. This means that the BT-D-K is not paired with any device.

If the BT-D-K display shows a serial number that is not the one of the parent tracker, you must unpair the BT-D-K before you continue. This is done by turning the device off and on, using its "MODE" button.

2. Check on the IoT platform that the parent tracker is working correctly (i.e. sending data).



Pair BT-D-K with parent tracker device

1. Press the “MODE” button on the BT-D.
2. Press the “MODE” button on the parent tracker.
The BT-D will first display "NO CONN" (no connection) if it is not paired yet. It takes about 60 to 180 seconds until a connection is established. It will then show the serial number of the parent tracker.

If the parent tracker does not connect to the BT-D-K it is possible that it is still connected to another device. Turn the parent device off and on again, using its "MODE" button.

The video below shows the complete pairing process.





Mount paired devices

When the parent tracker is connected, the BT-D-K will show the serial number (SXXJ...) of the parent tracker on the display.

You can now mount both devices.

As long as a BT-D-K is still found by the parent tracker, the parent tracker will remember the BT-D-K's unique network address and will communicate with the BT-D-K via Bluetooth according to the settings configured. The communication frequency can be configured.

Unpair devices

BT-D-K:

If the BTD-K shows a serial number, it is connected to a parent tracker. To remove the pairing of the BTD-K with a parent tracker, turn the BTD-K off and on again:

- turn it off: press & hold "MODE" button until display shows "OFF"), then
- turn it on again: press the "MODE" button again to turn it on; the display will now show "NO CONN" (No connection).

Parent tracker:

To remove the parent tracker pairing with the BTD-K, turn OFF the parent tracker.

Unmount and Deactivate Device

1

Remove device from its mounting position.

2

Press the "MODE" button until the display shows "OFF".



Return Device

In case the device is not needed anymore and you want to return the device, please follow the steps below:

1

Pack the devices according to the packaging instructions below.

2

Send an email to connect2track@dbschenker.com with information about

- pick-up address
- contact person
- type of returning devices
- total number of returning devices
- serial number of returning devices (starts with SXXJ)
- dimensions of return package (length x width x height)
- weight of return package

3

We will send you all relevant labels and documents, i.e.

- shipping labels
- commercial documents (you must print 3 copies of the commercial invoice)
- if needed, battery declaration (IATA permitted)

4

Make sure to attach all shipment documents (see picture below) and the return label to the package.

5

Contact your local parcel service provider (for example UPS) in order to arrange a pick-up.



Packing Instructions

When you pack the devices, observe the following rules:

- Make sure **all devices are deactivated** (see previous chapter).
- **Fix devices in their position:** do not leave any empty spaces in which the devices could move.
- **Use sufficient padding:** use stuffing paper or bubble wrap to protect the devices.
- If you place devices on top of each other, place a sufficient layer of stuffing paper or bubble wrap between the layers.

- **If you ship more than 15 devices, use double corrugated board for packing:** single corrugated board does not guarantee safety during longer transport distances. You can ship up to 30 devices together.
- **If you ship more than 30 devices, pack the devices in 4-6 packs individually** (single corrugated board is sufficient for that) and then in an outer packaging (double corrugated board). If this is not possible, divide the devices into smaller shipments and pack as described in the previous point. **You can ship a maximum of 35 devices together.**
- After you have packed the devices, **place one printout of the shipping documents on the outside of the box:** Documentation should contain proforma-invoice, packing list and certificate of origin and UN3481-sticker with the telephone number of the sender. **Place a copy of the shipping documents inside the box.**

BTD-K Technical Details

Sensors	<ul style="list-style-type: none">• Temperature: - Operating range: -30°C to +65°C• Humidity: - Accuracy:±2% of relative humidity
Battery & Charging	<ul style="list-style-type: none">• 3.200mAh Li-ion rechargeable with a USB-C• Measurement interval modifiable
Transmission Type	<ul style="list-style-type: none">• Bluetooth v4.0
Dimensions & Weight	<ul style="list-style-type: none">• 95 x 80 x 26 mm• 122g• can be freely mounted inside the container
IP Rating	<ul style="list-style-type: none">• 65
Certifications	<ul style="list-style-type: none">• UN38.3

- CE
- MSDS
- RoHs