

Truma iNet Box



Operating instructions

To be kept in the vehicle!

Page 2



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Symbols used



Note containing information and tips.

Intended use

The Truma iNet Box was developed for controlling iNet-capable Truma appliances via mobile terminal devices (e.g. smartphones, tablet PCs). Communication is via Bluetooth or GSM.



More information about iNet-capable Truma appliance can be found at www.truma.com/inet.



This product uses FreeRTOS. Information about this can be found at www.FreeRTOS.org

Operating instructions

Safety instructions

- Truma iNet Box must not be operated unless it is in technically perfect condition.
- Operate the Truma iNet Box only with the approved operating voltage.
- Repairs must be carried out immediately. Only carry out repairs yourself if the solution is described in the troubleshooting guide of this manual.
- A defective Truma iNet Box may only be repaired by the manufacturer or the manufacturer's service department.
- Do not perform any modifications to the Truma iNet Box as this can be dangerous.
- Do not switch on the appliance if the casing is damaged or if liquid has entered it.
- Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
- This device complies with Part 15 of the FCC Rules and with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions:
 - (1) this device may not cause harmful interference, and
 - (2) this device must accept any interference received, including interference that may cause undesired operation.
- Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :
 - (1) l'appareil ne doit pas produire de brouillage, et
 - (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Display and control panels / connections

Display panels

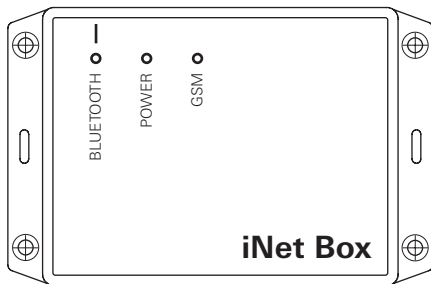


Figure 1 – Front view

Blue LED (BLUETOOTH)

- flashes upon pairing
- lights up briefly following a reset to the factory settings and appliance search at TIN 2

Green LED (POWER)

- flashes during start-up and lights up during operation

Red LED (GSM)

- lights up when GSM operation is not possible.

Control panels / connections

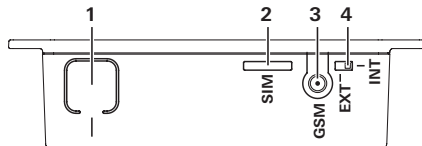


Figure 2 – Top view

- 1 Button
Connect BLUETOOTH, reset to the factory settings and perform appliance search
- 2 Mini-SIM (25 x 15 mm)
- 3 External antenna connection for GSM antenna
- 4 Changeover switch internal / external GSM antenna

Preparing start-up

Install the Truma App on mobile terminal device

1. Load the Truma App from the Apple AppStore or Google PlayStore onto the mobile terminal device.
2. Install the Truma App on the mobile terminal device.



If necessary, an installed Truma App must be updated.

3. If the Truma App is to be used on several mobile terminal devices, steps 1 and 2 must be repeated for each mobile terminal device.
4. To continue installation, follow the instructions in the Truma App or the instructions below.



For the remote control to function properly with SMS, it is necessary for the standard SMS app of your mobile terminal device to have your phone number as the sender and not manipulate the text. Under no circumstances may "WebSMS connectors" be used.

Perform the appliance search

Preparation:

1. Connect all suitable TIN-bus-capable Truma appliances to the Truma iNet Box and to the Truma CP plus control panel.
2. Switch on the power supply for all connected appliances
3. Perform the appliance search depending on the Truma iNet Box interfaces used.

Appliance search, TIN1 interface:

All appliances are automatically recognised.

The iNet-capable appliances connected to the Truma CP plus control panel must be known to the Truma CP plus control panel. If this is not the case, you must perform the following steps on the Truma CP plus:

Start the search of the appliances under menu item "Service menu" -> "RESET" -> "PR SET".

After confirmation, the Truma CP plus control panel initialises itself. "INIT .." appears on the display while this is in progress. This stores in the Truma CP plus control panel the appliances that have been found.

Appliance search, TIN2 interface:

Press the button (Figure 2 – 1) for at least 20 seconds. A short flashing of the blue LED indicates – appliances saved and reset done.



Resetting to the factory settings deletes all the data. Following a repair / retrofit, the appliance search must be repeated on the Truma iNet Box or with the Truma CP plus control panel.

Bluetooth communication

Set up the Bluetooth connection

To connect the mobile terminal device to the Truma iNet Box, the mobile terminal device must be switched on and Bluetooth must be activated (see the operating instructions of the mobile terminal device).

- Start the Truma App and open the remote control
- Press the button (Figure 2 – 1) for approximately 1 second.

If the Bluetooth pairing is active, the Truma iNet Box becomes visible for up to 2 minutes in the mobile terminal device and the blue LED flashes at the same time (Figure 1). The name "Truma iNet Box" appears on the mobile terminal device.

The Bluetooth connection to the mobile terminal device can be made.

Confirm the "Truma iNet Box" connection in the Bluetooth settings of your mobile terminal device.



Up to 20 mobile terminal devices (mobile phones, tablet PCs) can be logged in on the Bluetooth connection. Four mobile terminal devices can control the Truma iNet Box simultaneously.

The first mobile terminal device set up (administrator) remains permanently in the Truma iNet Box memory. If the maximum number of mobile terminal devices has been reached, the 21st mobile terminal device overwrites the 2nd one in the memory and so on.



The first mobile terminal device set up (administrator) can only be deleted by restoring to the factory setting (see "Factory setting" on page 10) in the Truma iNet Box.

i The Bluetooth pairing mode is automatically ended following a successful set-up.

GSM communication

Prepare the Truma iNet Box

A Bluetooth connection must first be established before the GSM communication can be set up and operated.

A Mini-SIM card with its own call number and sufficient credit is required for GSM communication. The Mini-SIM card is not included in the scope of delivery.

Inserting the Mini-SIM card

- Push the Mini-SIM card into the “SIM” slot as shown (Figure 3) until it engages.
- When doing this, make sure that the card is inserted into the guide provided for that purpose and that it is under no circumstances inserted the wrong way round.

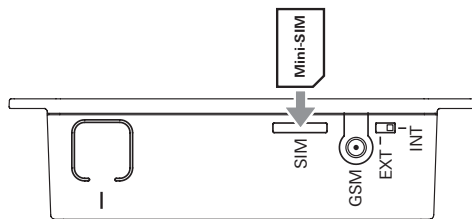


Figure 3 – Mini-SIM card

Removing the Mini-SIM card

- Pressing the Mini-SIM card again enables it to be removed.

i If you have any questions about your Mini-SIM card, contact your mobile phone supplier

Set up the GSM connection

An active Bluetooth connection is required for the continued installation and the Truma App on the mobile terminal device must be started.

1. Select the “set-up assistant” of the Truma App
2. Via the set-up assistant, enter the PIN and the call number of the Mini-SIM (Truma iNet Box), and also a freely selectable name (maximum 11 characters), and confirm this step.

Notes:

- The Mini-SIM card is blocked after 3 incorrect PIN entries. To unblock, the Mini-SIM card must be removed from the Truma iNet Box and unblocked in a mobile terminal device with the PUK. Contact your mobile phone provider for help in unblocking.
- If the Mini-SIM card is replaced, the PIN and call number must be adjusted in the set-up assistant of the Truma App before use.

Notes for operation

To operate the appliances connected via the Truma iNet Box, follow the steps in the Truma App.

- The Truma iNet Box flashes during start-up and is not ready for operation until the operation LED lights up continuously.
- The last incoming command is executed.
- Bluetooth communication has priority over GSM communication.
- The Truma iNet Box automatically switches from GSM to Bluetooth communication as soon as a saved mobile terminal device comes into reception range.
- It automatically switches back to GSM communication when the device goes out of reception range.
- Successful control requires the controlling device to be ready for operation
- The Truma iNet Box can also be operated without a Mini-SIM card. This restricts its use to close range via Bluetooth.
- If the Truma iNet Box is not used for an extended period, Truma recommends disconnecting the operating voltage to the Truma iNet Box.
- If you leave your vehicle for an extended period and want to keep the Truma iNet Box ready for operation, make sure that the power supply is sufficient for the required time, bearing in mind the power consumption of all the active appliances.

Technical data

Power supply	12 V / 24 V
Voltage range	min. 8 V, max. 30 V
Average power consumption	40 mA (12 V), 20 mA (24 V)
SIM card type	Mini-SIM (25 x 15 mm)
Interfaces	TIN-Bus (2 x TIN1 replaceable, TIN2) GSM Bluetooth Class 2 147 x 96 x 40 mm
Bluetooth Dimensions (L x W x H)	
Weight (without accessories)	approx. 150 g
Temperature	-30 °C to +60 °C
External GSM antenna	Antenna gain max. 5.5 dBi at 850 MHz and max. 2 dBi at 1900 MHz



Subject to technical changes.

Troubleshooting guide

If you encounter problems with the Truma App and / or the Truma iNet Box, we recommend checking that the app is up to date, and performing an update if necessary. In this eventuality we also recommend a firmware update for the Truma iNet Box in accordance with the instructions in the firmware update section.

	Fault	Remedy
Truma iNet Box and system	Truma iNet Box is not ready for operation (green LED is not on)	– Check all plug connections and whether the power supply is sufficient
	My connected appliances cannot be controlled	– Check that the Truma iNet Box is ready for operation – Check that the appliances are connected correctly and ready for operation – Perform a restart of the Truma iNet Box. To do this, disconnect the power supply for about 10 seconds. (*)
GSM	Poor network reception	– Check the installation of the Truma iNet Box – Check that the network covers your current location – Check the internal / external GSM antenna changeover switch
	No operation possible (red LED is on)	– Check that the used Mini-SIM card is functioning properly (e.g. SIM card has been blocked by the operator) – Check the PIN in the set-up assistant of the Truma App – Check the internal / external GSM antenna changeover switch
	I have sent a command via SMS but my appliance has not yet received it	– Check the phone number in the set-up assistant of the Truma App – There may be a delay in the SMS being forwarded due to the mobile phone provider or poor network cover
	I do not receive SMS confirmation	– Check that the used Mini-SIM card is functioning properly and has credit

	Fault	Remedy
Bluetooth	No operation possible (only GSM operation possible)	<ul style="list-style-type: none"> – Make sure that Bluetooth is active on the mobile terminal device and is connected, and that the battery of the mobile terminal device has sufficient charge – Make sure that you are within Bluetooth range and that the connection has been successfully set up – Repeat the set-up of the Bluetooth connection (*)
	Insufficient range	<ul style="list-style-type: none"> – Check the installation of the Truma iNet Box

(*) If the measures outlined here do not help, restore the factory settings.

If these actions do not remedy the problem, please contact Truma Service.

Factory setting

Reset all settings to the factory setting and delete all individual data or for a appliance search on the interface TIN2.

Press the button (Figure 2 – 1) for at least 20 seconds.

The blue LED lighting up briefly indicates that the reset has been completed and the appliance search on TIN2 has been performed.

Cleaning and maintenance

Clean the appliance only with a slightly moistened, lint-free cloth.

Do not use any chemical or scouring cleaning agents.

Make sure that no liquids or other components enter the Truma iNet Box.

Repair

If repairs are necessary, contact Truma Service.

Firmware update

To perform an update, only one mobile terminal device may be actively connected to the Truma iNet Box.

An available firmware update for the Truma iNet Box is displayed in the Truma App on the mobile terminal device or can be called up manually via the settings. Transmission is via Bluetooth (follow the instructions in the Truma App).

The battery of the mobile terminal device must be sufficiently charged before a firmware update.

The mobile terminal device should not be moved or used during an update.

Disposal

The appliance must be disposed of in accordance with the administrative regulations of the respective country in which it is used. National regulations and laws (in Germany, for example, the End-of-life Vehicle Regulation) must be observed.

Accessories

TIN-bus cable, 3 different lengths

12 / 24 V connector cable

Fuse holder with 1 A fuse

TIN distributor

Truma Manufacturer's Warranty

1. Warranty claims

The Manufacturer hereby warrants for all defects of the unit caused by material or production faults. In addition, the seller continues to be subject to any statutory warranty claims.

No warranty claim shall be applicable under the following circumstances:

- Consumable parts which are subject to wear and tear
- Use of parts other than original Truma components in any of the units
- Failure to observe Truma's installation or operating instructions
- Improper handling
- Improper transport packing

2. Scope of warranty

The warranty covers all defects under clause 1 that occur within 24 months upon concluding the purchase agreement between the seller and the end customer. The Manufacturer undertakes to remedy such defects through subsequent fulfilment, i.e. at its discretion either by repairing or replacing the defective item. If the Manufacturer remedies a defect under its warranty commitment, the term of the Warranty shall not recommence anew with regard to the repaired or replaced parts; rather, the original warranty period shall continue to be applicable. No further-reaching claims shall be permitted, especially damage claims presented by purchasers or third parties. This provision shall not affect the validity of the German Product Liability Act (Produkthaftungsgesetz).

The Manufacturer shall bear the cost of employing the Truma Customer Service for the removal of warranty defects – in particular, transportation, travelling, job and material costs – provided that the Customer Service conducts its work within Germany. This Warranty does not cover Customer Service work outside Germany.

Additional costs arising from complicated removal or installation jobs on the unit (e.g. dismantling of furnishings or parts of the vehicle body) are not covered by the Warranty.

3. Making a claim under the warranty

The Manufacturer's address is:
Truma Gerätetechnik GmbH & Co. KG
Wernher-von-Braun-Straße 12
85640 Putzbrunn, Germany

Should problems occur, please contact the Truma Service Centre or one of our authorised service partners (see www.truma.com). Please describe your claim in detail and state the serial number of the unit and the date of purchase.

To help the Manufacturer determine whether your claim is covered by the Warranty, the end user must take or send the unit to the Manufacturer or service partner at their own risk.

If a unit is sent to the manufacturing facility, make sure it is shipped as a freight item. If the claim is covered by the Warranty, transport / shipping and the cost of return shall be borne by the manufacturing facility. If the claim is not covered by the Warranty, the Manufacturer shall notify the customer to this effect, specifying the cost of repairs not borne by the Manufacturer; shipping costs, too, shall be borne by the customer in such a case.

Declaration of conformity

1. Information about the manufacturer

Name: Truma Gerätetechnik GmbH & Co. KG
Address: Wernher-von-Braun-Str. 12, D-85640 Putzbrunn

2. Appliance identification

Type / model: **Truma iNet Box**

3. Complies with the requirements of the following EC directives

Low Voltage Directive 2014/35/EC
Radio Interference Suppression UN ECE R10
EMC Directive 2004/108/EC
End-of-Life Vehicle Directive 2000/53/EC
Telecommunications Directive 1999/5/EC

and bears the CE mark and the type approval number E1
10R-047568

4. Basis for the proof of conformity

Article 3.1b: EN 301489-1 V1.9.2, EN 301489-7 V1.3.1 (GSM),
EN 301489-17 V2.2.1 (Bluetooth);
Article 3.2: EN 301511 V9.0.2 (GSM 900 and 1800),
EN 300328V1.8.1 (Bluetooth 4.0 LE), EN 300328V1.8.1 (Blue-
tooth 4.0 BR+EDR);
Article 3.1a: EN 60950-1:2006/A2:2013;
Article 3.1a and Article 2 2006/95/EC: EN 62311:2008

5. Monitoring body

Federal Motor Transport Authority (Kraftfahrt-Bundesamt)

6. Signatory details



Frank Oster
Managing Director

Putzbrunn, 09.03.2015



Should problems occur, please contact the Truma Service Centre or one of our authorised service partners (see www.truma.com).

In order to avoid delays, please have the unit model and serial number ready (see type plate).

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