Truma iNet Box

Operating instructions
To be kept in the vehicle!

Page 2
Truma iNet Box

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Symbols used

Note containing information and tips.

Intended use

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

The Truma iNet Box requires a connection to a 2G mobile phone network in order to send and receive text messages (GSM). Ask your mobile phone provider whether a GSM connection is available to you with your mini SIM card. If there is no GSM connection, the Truma iNet Box can only be operated via Bluetooth.

More information about iNet-capable appliances can be found at www.truma.com

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 operating instructions.

– 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 elements / connections

Display elements

Blue LED (BLUETOOTH)
- flashes upon pairing
- lights up briefly following a reset to the factory settings and appliance search at TIN 2
- lights up continuously when there is a Bluetooth connection

Green LED (POWER)
- flashes during start-up and lights up during operation

Red LED (GSM)
- lights up when GSM operation is not possible.
- flashes when GSM operation is not set up
- does not light up when GSM operation is set up

Control elements / 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

Installing the Truma App on a 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 “Web-SMS connectors” be used.

Perform the appliance search

**Preparation:**
1. Connect all suitable iNet-capable appliances to the Truma iNet Box and to the control panel (see “Truma iNet Box” installation instructions).

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.

Observe the manufacturer’s installation and operating instructions in the case of control panels from third-party suppliers.

**Appliance search, TIN2 interface:**
Open the appliance manager in the Truma App under “Settings” and perform the appliance search.

Resetting the Truma iNet Box to the factory settings also enables an appliance search to be performed (see “Factory setting” on page 11).

**Bluetooth communication**

**Setting up the Bluetooth connection**

To connect the mobile terminal device to the Truma iNet Box for the first time, 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) on the Truma iNet Box for approx. 1 second.

If a Bluetooth connection has already been set up, the one under “Settings” -> “Set up Truma iNet Box” can be changed.

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 “iNet Box” appears on the mobile terminal device.

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

Confirm the “iNet Box” connection in the Bluetooth settings of your mobile terminal device.
Several mobile terminal devices can be logged on at the Bluetooth connection (mobile phones, tablet PCs). Four mobile terminal devices can control the Truma iNet Box at the same time.

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 new mobile terminal device overwrites the oldest one in the memory (except the administrator).

The first mobile terminal device set up (administrator) can only be deleted by restoring to the factory setting (see “Factory setting” on page 11) in the Truma iNet Box.

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.

**Removing the Mini-SIM card**

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

If you have any questions about your Mini-SIM card, contact your mobile phone supplier.
Set up 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. Under “Settings”, select -> “Set up Truma iNet Box” -> “Set up GSM”.

2. 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.

 – During start-up, the green operating LED flashes and the Truma iNet Box is not ready for operation until the operating LED lights up continuously.

 – The last incoming command is executed.

 – 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.
<table>
<thead>
<tr>
<th><strong>Technical data</strong></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Power supply</strong></td>
<td>12 V / 24 V</td>
</tr>
<tr>
<td><strong>Voltage range</strong></td>
<td>min. 8 V, max. 30 V</td>
</tr>
<tr>
<td><strong>Average</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Power consumption</strong></td>
<td>40 mA (12 V), 20 mA (24 V)</td>
</tr>
<tr>
<td><strong>SIM card type</strong></td>
<td>Mini-SIM (25 x 15 mm)</td>
</tr>
<tr>
<td><strong>Interfaces</strong></td>
<td>TIN bus</td>
</tr>
<tr>
<td></td>
<td>(2 x TIN1 equivalent, TIN2)</td>
</tr>
<tr>
<td></td>
<td>GSM</td>
</tr>
<tr>
<td></td>
<td>Bluetooth</td>
</tr>
<tr>
<td><strong>Bluetooth</strong></td>
<td>Class 2</td>
</tr>
<tr>
<td><strong>Dimensions (L x W x H)</strong></td>
<td>147 x 96 x 40 mm</td>
</tr>
<tr>
<td><strong>Weight</strong></td>
<td>approx. 150 g</td>
</tr>
<tr>
<td><strong>(without accessories)</strong></td>
<td>-30 °C to +60 °C</td>
</tr>
<tr>
<td><strong>Temperature</strong></td>
<td></td>
</tr>
<tr>
<td><strong>External GSM antenna</strong></td>
<td>Antenna gain max. 5.1 dBi at</td>
</tr>
<tr>
<td></td>
<td>850 MHz and max. 2.2 dBi at</td>
</tr>
<tr>
<td></td>
<td>1900 MHz</td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>Fault</th>
<th>Remedy</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Truma iNet Box and system</strong></td>
<td></td>
</tr>
<tr>
<td>Truma iNet Box is not ready for operation (green LED is not on)</td>
<td>– Check all plug connections and whether the power supply is sufficient</td>
</tr>
</tbody>
</table>
| 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  
– Check whether your mobile phone provider provides a connection to a 2G mobile phone network (GSM) |
| 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 |
<p>| I do not receive SMS confirmation | – Check that the used Mini-SIM card is functioning properly and has credit |</p>
<table>
<thead>
<tr>
<th>Fault</th>
<th>Remedy</th>
</tr>
</thead>
</table>
| Bluetooth No operation possible (only GSM operation possible) | - 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            | - 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

Resetting to the factory settings deletes all the data.

Reset all settings to the factory setting and delete all individual data or for an 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 an appliance search on TIN2 has been performed.

The Bluetooth connection to the Truma iNet Box must then be deleted and restored in the settings of the mobile terminal device.

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.

Following a repair / retrofit, the appliance search must be repeated on the Truma iNet Box and with the Truma CP plus control panel.

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 indicated as a notification in the Truma App. The updates can be installed under “Settings” -> “Truma iNet Box Update”. 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 divider
Manufacturer’s warranty (European Union)

1. Scope of manufacturer’s warranty

As the manufacturer of the unit, Truma undertakes a warranty towards the consumer that covers any material and/or manufacturing defects of the unit.

This warranty is applicable in EU member states as well as in Iceland, Norway, Switzerland and Turkey. A consumer is the natural person who was the first one to purchase the appliance from the manufacturer, OEM or dealer and who neither resold the appliance in a commercial or self-employed professional capacity nor installed it for a third party in such a capacity.

The manufacturer’s warranty covers any of the aforementioned defects that occur within 24 months upon concluding the purchase agreement between the seller and the consumer. The manufacturer or an authorised service partner undertakes to remedy such defects through subsequent fulfilment, i.e. at their discretion either by repairing or replacing the defective item. Defective parts shall become the property of the manufacturer or the authorised service partner. If the appliance is no longer manufactured at the time of defect notification and if replacement delivery has been opted for, then the manufacturer may deliver a similar product.

If the manufacturer remedies a defect under its warranty commitment, the term of the warranty shall not start again with regard to the repaired or replaced parts; rather, the original warranty period shall continue to be applicable to the appliance. Only the manufacturer itself and an authorised service partner shall be entitled to conduct a warranty job. Any costs that occur in the event of a warranty claim shall be settled directly between the authorised service partner and the manufacturer. The warranty does not cover additional costs arising from complicated removal or installation jobs on the appliance (e.g. dismantling of furnishings or parts of the vehicle body), and neither does it cover travel expenses incurred by the authorised service partner or the manufacturer.

No further-reaching claims shall be permitted, especially damage claims presented by the consumer or third parties. This provision shall not affect the validity of the German Product Liability Act (Produkthaftungsgesetz).

The voluntary manufacturer’s warranty does not affect the consumer’s legally valid claims for defects against the seller in the relevant country of purchase. In individual countries there may be warranties that can be issued by the relevant dealer (official distributor, Truma Partner). In such cases the warranty can be implemented directly through the dealer from whom the consumer bought the appliance. The warranty regulations of the country in which the appliance was purchased by the consumer for the first time shall also be applicable.

2. Warranty exclusions

No warranty claim shall be applicable under the following circumstances:

- Improper, unsuitable, faulty or negligent use and any use that is not compliant with the intended purpose
- Improper installation, assembly or commissioning, contrary to operating or installation instructions
- Improper operation or operation contrary to operating or installation instructions, particularly any disregard for maintenance, care or warning notes,
- Instances where installations, repairs or any other procedures have been conducted by non-authorised parties
- Consumable materials and parts which are subject to natural wear and tear
Installation of replacement, supplementary or accessory parts that are not original manufacturer’s parts or which have not been approved by the manufacturer. If the appliance is subject to networked control, this applies, in particular, if the control units or the software have not been approved by Truma or if the Truma control unit (e.g. Truma CP plus or Truma iNet Box) has not been exclusively used for controlling Truma appliances or appliances approved by Truma.

- Damage arising from foreign substances (e.g. oil or, plasticisers in the gas), chemical or electrochemical influences in the water, or cases when the appliance has come into contact with unsuitable substances (e.g. chemical products, flammable substances or unsuitable cleaning agents)
- Damage caused by abnormal environmental or unsuitable operating conditions
- Damage caused by force majeure or natural disasters or any other influences not within Truma’s responsibility
- Damage resulting from improper transport
- End customer’s or third-party modifications of the appliance, including any replacement, supplementary or accessory parts, or installation of the same, especially concerning the exhaust gas system or the cowl.

3. Making a warranty claim

The warranty must be claimed with an authorised service partner or at the Truma Service Centre. All the relevant addresses and phone numbers can be found at www.truma.com, in the “Service” section.

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

To ensure a smooth procedure, we would be grateful if you could have the following details ready before contacting us:

- Detailed description of the defect
- Serial number of the appliance
- Date of purchase

The authorised service partner or the Truma Service Centre will then specify the further procedure. To avoid transport damage, the affected appliance must only be shipped by prior arrangement with the authorised service partner or the Truma Service Centre.

If the warranty claim is recognised by the manufacturer, then the transport expenses shall be borne by the same. If no warranty claim is applicable, the consumer will be notified accordingly and any repair and transport expenses shall then be the consumer’s liability. We ask you not to send in an appliance without prior arrangement.
EU Declaration of Conformity

Product

Function  Control unit
Type       Truma iNet Box
Versions   Truma iNet Box

Manufacturer
Truma Gerätetechnik GmbH & Co. KG
Wernher-von-Braun-Str. 12,
85640 Putzbrunn, Germany

The manufacturer is solely responsible for issuing this declaration of conformity.

The product complies with the relevant harmonisation legislation of the Union:
2014/53/EU  Radio systems
UN ECE R10  Electromagnetic compatibility for motor vehicles

The following (harmonised) standards and other technical specifications were taken as the basis:
Article 3(1)(b): Draft EN 301 489-1 V2.2.0; Draft EN 301 489-17 V3.2.0 (Bluetooth); Draft EN 301 489-52 V1.1.0
Article 3(2): EN 301 511 V9.0.2 (GSM 900 und 1800);
EN 300 328 V2.1.1 (Bluetooth 4.0 BR+EDR)

The German Motor Transport Authority (KBA) of 24932 Flensburg, Germany has issued the following type approval(s):
E1 10R-05 7568

Accessories and components for proper operation:
External antenna optional
Gain max: 5.1 dBi at 850 MHz; 2.2 dBi at 1900 MHz

Signed for and on behalf of :
Truma Gerätetechnik GmbH & Co. KG

Frank Oster
Managing Director
Putzbrunn, 20.06.2017
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).