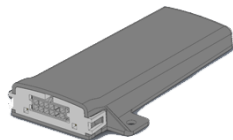


# ThermoConnect TCon2



EN

Operating- and Installation Instructions 2









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## 1 About this document

### 1.1 Use of symbols and highlighting

Texts with the symbol  refer to separate documents which are enclosed or can be requested from Webasto. Texts with the symbol  refer to technical features. Texts with the symbol  or  refer to possible material damage, risk of accident or injury. Text with the symbol  describes a necessary action. Text with the symbol  describes an action.

### 1.2 Using this document



- Before operating the ThermoConnect, carefully read and follow these Operating and Installation Instructions as well as the operating instructions for the heater.
- Hand over these Operating and Installation Instructions to the next owner or user of the device.

### 1.3 Purpose of the document

These Operating and Installation Instructions are part of the product and provide the user with information on the safe operation of the ThermoConnect TCon2. These Operating and Installation Instructions explain all the functions of the control element.

#### **NOTE**

The actual availability of these functions depends on each installed heater.

  Carefully read through and follow the heater Operating and Installation Instructions and the safety information contained therein.

## 2 Warranty and liability

Webasto shall not assume liability for defects or damage that are the result of the installation and operating instructions being disregarded. In particular, this liability exclusion applies in the following cases:

- mechanical damage to the equipment
- installation by untrained personnel
- failure to comply with inspection and service instructions
- conversion of the unit without permission from Webasto
- Improper use.
- repairs not carried out by a Webasto service workshop
- Installation without the appropriate tools and equipment.

## 3 General safety information

### **DANGER** **Danger of explosion**

In environments with combustible vapours, flammable dust and hazardous goods (e.g., petrol stations, tank facilities, fuel store, coal bunkers, timber yard or grain warehouses).

- ▶ Do not switch on or operate the heater.

### **DANGER** **Danger of poisoning and suffocation**

Do not operate the heater in closed rooms that do not have an exhaust extraction unit.

- ▶ Do not switch on or operate the heater (also not with programmed heating start) in closed rooms that do not have an exhaust extraction unit.

### **DANGER** **Danger of fire**

Flammable materials or liquids in the hot air flow (air heaters).

- ▶ Keep the hot air flow free.

**DANGER****Risk of injury from the defective unit**

Do not operate a defective ThermoConnect TCon2 and put it out of service by removing the fuse:

- ▶ prolonged heavy smoke development
- ▶ unusual burner noise
- ▶ Smell of fuel
- ▶ permanent fault shutdowns with error messages (blink code)
- ▶ Damaged heater

⇒ Contact a Webasto service workshop.

**4 Intended use**

The control element ThermoConnect TCon2 is currently approved for the following applications:

Switching Webasto air and water heaters on and off.

The ThermoConnect TCon2 has an integrated GPS antenna and an eSIM (embedded SIM).

**5 Control**

You can operate the air - or water heater in 3 ways:

- With the provided button.

- With the ThermoConnect app on a mobile phone.
- With the "My WebastoConnect" web page.

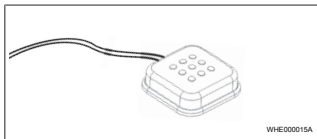
**6 Pushbutton**

Fig. 1

The pushbutton must be located within the driver's field of view and operation. Install the pushbutton at an accessible location, a protected area. The pushbutton switches the air- or water heater on or off with a default duration (60 minutes).

- ▶ Press the pushbutton to start the air- or water heater.

If necessary, the default duration can be changed. See chapter 8 "My WebastoConnect web service" on page 5.

The illumination of the pushbutton is also a status indicator:

- LED does not light up - The heater is switched off

- LED is blinking green - The ThermoConnect TCon2 is not connected, is searching for a network or is restarting
  - LED lights up green - Heater is on
- Use of the pushbutton to restart and reset the ThermoConnect TCon2 receiver.
- Restart see chapter 6.1 "Restart" on page 4.
  - Reset see chapter 6.2 "Settings reset" on page 4.

**6.1 Restart**

- ▶ Press and hold the pushbutton for 10 s.
- ▶ Release the pushbutton.
  - The ThermoConnect TCon2 restarts.
  - The illumination of the pushbutton blinks while the ThermoConnect TCon2 restarts.

**6.2 Settings reset****NOTE**

Settings reset performs the following functions:  
 Connection settings revert back to default.  
 Removes paired mobile users and user phone numbers.  
 Removes all timers and location-based events.

Procedure for resetting to factory settings:

- ▶ Press and hold the pushbutton for 10 s.

- ▶ Release the pushbutton.
- ▶ Press the pushbutton 3 times while the illumination of the pushbutton is blinking.

## 7 Mobile phone app

### NOTE

To install the app: See chapter 13.1 "Install the app on mobile phone" on page 8.

### NOTE

Not all settings can be controlled by using the app. More settings are available in the web service. See chapter 8 "My WebastoConnect web service" on page 5.

ThermoConnect TCon2 is controlled by the ThermoConnect mobile app. It is operated using any network-connected compatible mobile phone.

## 8 My WebastoConnect web service

### NOTE

All app settings are also available in My WebastoConnect and will be synchronised automatically. Context-specific help for each setting is available in My WebastoConnect service.

ThermoConnect TCon2 settings can be controlled using the My WebastoConnect web service

## 9 Mobile network connection

A mobile phone with the ThermoConnect TCon2 app is necessary to use the ThermoConnect mobile app. For more information see chapter 13.1 "Install the app on mobile phone" on page 8. An active ThermoConnect subscription is required to be able to use this device. A subscription fee is necessary.

### 9.1 Subscription

When subscription period nears expiration a reminder will be sent to the ThermoConnect mobile app and / or to user E-mail (if given in My WebastoConnect service).

### 9.2 Subscription renewal

#### NOTE

If service subscription is not renewed before expiration then service will be suspended. To resume suspended service, a reactivation fee is applied.

Check and renew the current subscription in My WebastoConnect web service.

## 10 Installation and electrical connection

### 10.1 Scope of Delivery

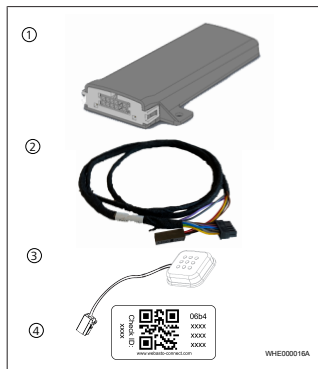


Fig. 2

- ① ThermoConnect TCon2
- ② Wiring harness
- ③ Pushbutton (with illumination and temperature sensor)
- ④ QR-code labels (2x)

Not illustrated:

- Velcro stickers (2x)
- Operating- and Installation instructions

## 10.2 Connections

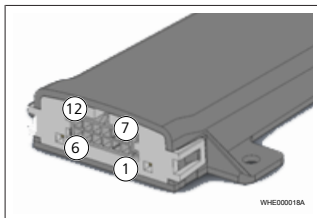


Fig. 3

- 1 Black - Switch output 1, (0.5 A, level same as supply voltage when controlled)
- 2 Brown - ground
- 3 not in use
- 4 Blue - pushbutton with integrated temperature sensor
- 5 Grey - Switch input 1 (+0 V...+32 V, min. impedance 10 k $\Omega$ , high level > 5 V, low level < 0.5 V)
- 6 not in use
- 7 Red - Supply voltage (+9 V...+32 V)

- 8 Brown - Pushbutton, ground
- 9 Green - Pushbutton, LED illumination
- 10 Grey - Pushbutton, switch contact
- 11 Yellow - W-bus
- 12 not in use

## 10.3 Installation position

### NOTE

Do not install the device in the grey area as shown in Fig. 4.

### NOTE

The vehicles with special glazing, such as windscreen heating or sun protection glazing, can influence the reception of the ThermoConnect TCon2. For vehicles with this type of equipment, it is recommended to install the ThermoConnect TCon2 on the side of the instrument panel.

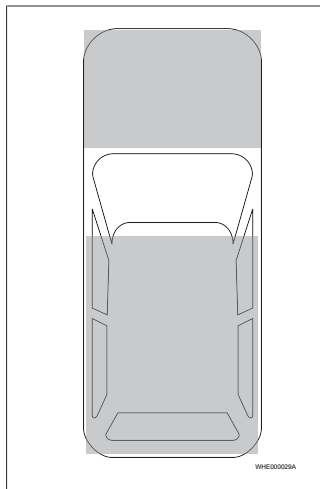


Fig. 4

## 10.4 Installing the unit

- ▶ Select an installation place for the ThermoConnect TCon2:
  - Install the ThermoConnect TCon2 only on flat surfaces to avoid bending of the casing.

- The ThermoConnect TCon2 must be installed inside the car, in a dry and protected place.
- Installation below dashboard, as high as possible, on driver side is recommended.
- ▶ Mark the location of the ThermoConnect TCon2 in the drawing in Fig. 4

## 10.5 Installation of the pushbutton

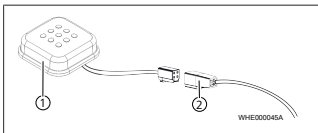


Fig. 5

- ① Pushbutton      ② Wiring harness

### NOTE

Do not disconnect the connector from the cable.

### NOTE

The pushbutton must be installed.

### NOTE

The pushbutton includes a temperature sensor. Make sure that the air can flow around the pushbutton at the installation location, but the pushbutton must be shielded from direct air flow from ventilation ducts.

The pushbutton has four functions:

1. Switch the heater on/off.
  2. Acknowledge new users.
  3. Measure the temperature.
  4. Reset or restart, see chapter 6.1 "Restart" on page 4/chapter 6.2 "Settings reset" on page 4.
- ▶ Plug on the ThermoConnect TCon2 wiring harness.
  - ▶ Install the pushbutton at an accessible location, a protected area.
  - Make sure the illumination is visible during operation.

## 10.6 Wiring harness installation

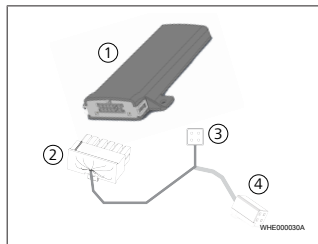


Fig. 6

- ① ThermoConnect TCon2  
 ② Main connector  
 ③ Heater connector  
 ④ Pushbutton connection

### NOTE

Only install the ThermoConnect TCon2 with the ThermoConnect TCon2 wiring harness.

## 10.7 Compatibility with other Webasto control elements

The ThermoConnect TCon2 can be coupled in the W-bus network with most Webasto control elements and always outputs the

correct operating status. (Available as from November 2019, the receiver is updated automatically.) With the exception of Telearstart. Switching on the heater via the Telearstart does not result in the switched-on heater being indicated on the mobile or the web-based app.

## 11 Connector to connect to heater

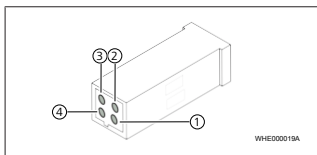



Fig. 7

- ① Yellow - W-bus
- ② Black - Analogue
- ③ Red - Pin 30, power supply
- ④ Brown - Pin 31, ground

 See also heater wiring harness.

## 12 QR-code labels



Fig. 8

The QR-code label is needed to couple the ThermoConnect mobile app with the ThermoConnect TCon2 device.

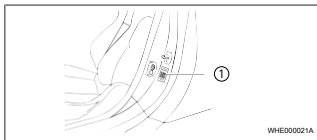


Fig. 9

- ▶ Attach one label to a place where it can be scanned using the phone camera. For example to the vehicle A- or B-pillar, the side of the dashboard or on the fuse compartment lid.
- ▶ Attach the other label on the back of the document.

## 13 Initial start-up

### 13.1 Install the app on mobile phone



Fig. 10

Example of the app on a mobile phone

- ▶ On mobile phone, check if the mobile phone is connected to a network (an internet connection must be available).
- ▶ Go to the relevant app store.
- ▶ Search for "ThermoConnect". The app is available in the Apple App Store and Google Play. This step can also be performed by using the QR code.
  - Apple App Store see Fig. 11
  - Google Play see Fig. 12



Fig. 11



Fig. 12

- ▶ Install the ThermoConnect mobile app on the phone.
- ▶ Connect the phone with the ThermoConnect TCon2 following the instructions on the mobile phone app. See chapter 13.2 "Connect the mobile phone" on page 9.

### 13.2 Connect the mobile phone

- ✓ Make sure that you have the ThermoConnect mobile app installed.

#### Step 1 of 4



Fig. 13

- ▶ Launch the mobile app by clicking the Webasto icon.

#### Step 2 of 4

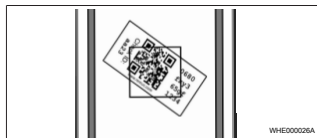


Fig. 14

- ▶ Scan the QR code using the phone camera. The QR code should be affixed to the vehicle and to the backpage of this manual. The QR code can also be found on the receiver. (See chapter 12 "QR-code labels" on page 8).

#### Step 3 of 4



Fig. 15

Now any name can be entered for the ThermoConnect TCon2 and be confirmed by clicking "OK" or "Create".

#### Step 4 of 4

- ▶ ThermoConnect TCon2 is now connected and ready for use. For more information, see "<https://www.webasto-comfort.com>".

### 13.3 User management

More than one user (up to 10) may use the ThermoConnect TCon2. When adding new users (see chapter 13.2 "Connect the mobile phone" on page 9), an identification message is required from the new user. Existing users receive this message as a notification in their ThermoConnect mobile app and must confirm or deny a new user. If the user gets a new phone and tries to pair the mobile phone without access to the previously paired phone, the confirmation

can be done with the pushbutton: Press and hold the pushbutton for 10 seconds to approve a new user.

## 14 Statutory regulations governing installation

Regulation	Typ approval number
ECE R10	E17 10 R - 050151

The stipulations of these regulations are binding in the area covered by EU Directive 70/156/EEC and/or 2007/46/EC (for new vehicle models from 29/04/2009) and should also be observed in countries where there are no specific regulations. Failure to follow the installation instructions and the notes contained therein will lead to all liability being refused by Webasto.



WEEE directive This product must not be disposed of with normal household rubbish.

Dispose of this product according to the applicable rules and regulations. Information about proper disposal is provided by the municipal authorities, the responsible household waste recycling centre and/or your local distribution partner.

## 15 CE-declaration of conformity

Hereby, Webasto declares that the radio equipment type ThermoConnect TCon2 is in compliance with the Directive 2014/53/EU. The full text of the EU declaration of conformity is available at "Webasto Technischer Service". Select product type "Control Elements" and product "ThermoConnect".

## 16 Technical data

ThermoConnect TCon2	Values
Operating voltage [V]	9 to 32
Current consumption [mA]	< 5 (no-load current)
Protection class	IP42
Operating/storage temperature for receiver [°C]	-40 to +85

## 17 Dimensions

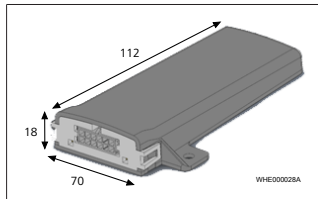


Fig. 16

All dimensions specified in mm.

These are the original instructions. The German language is binding. You can request your language if it is missing. The telephone number of each country can be found in the Webasto service centre leaflet or the website of the respective Webasto representative of your country.

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