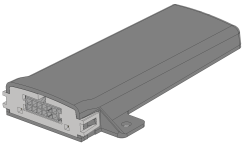
ThermoConnect TCon2



EN **Operating- and Installation Instructions** **2**

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1 About this document

1.1 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.

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

NOTE

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

1.2 Using this document

- Before operating the ThermoConnect TCon2, 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 Use of symbols and highlighting

Texts with the symbol refer to separate documents which are enclosed or are available from Webasto at https://dealers.webasto.com.

- Texts with the symbol refer to technical features.
- Texts with the symbol or refer to possible material damage, risk of accident or injury.
- Texts with the symbol ✓ describe a requirement for the following necessary action.
- Texts with the symbol ▶ describe an action.

2 Warranty and liability

Webasto shall not assume liability for defects or damage that are the result of the installation and operating instructions, and the instructions in this document, being disregarded. This liability exclusion particularly applies for:

- Mechanical damage to the equipment.
- Maintenance by untrained personnel
- failure to comply with inspection and service instructions
- Repairs not carried out by a Webasto service workshop.
- Conversion of the unit without permission from Webasto.
- Improper use.

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.

DANGER

Danger of fire

Flammable materials or liquids in the hot air flow.

▶ Keep the hot air flow free.

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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 Webasto Connect" web page.

NOTE
Switching on the heating may be delayed depending on the mobile network reception.

NOTE
Depending on the vehicle model, there may be an increased quiescent current consumption message in the vehicle information system after operation in parking heating mode. This can occur, for example, when the vehicle is parked in an area without mobile network reception (e.g. in an underground car park).

6 Pushbutton

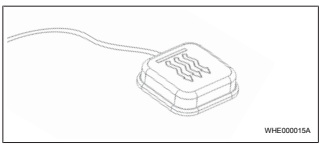


Fig. 1

NOTE
The pushbutton must be located within the driver's field of view and operation. Install the pushbutton at a visible and accessible location.

The pushbutton switches the air- or water heater on or off with a default duration.

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

If necessary, the default duration can be changed. See chapter 8 "My Webasto Connect 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 flashes green – The heater is not connected, searching for the cellular network or restart in progress.
– 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 5.

6.1 Restart

▶ Press and hold the pushbutton for 10 s.
▶ Release the pushbutton.
– The ThermoConnect TCon2 restarts.
– The pushbutton illumination flashes while the ThermoConnect TCon2 is restarting.

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 pushbutton LED is flashing.

7 Mobile phone app

The ThermoConnect TCon2 is controlled by the ThermoConnect mobile app. It is operated using any compatible mobile phone that is connected to the internet.

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 Webasto Connect web service" on page 5.

8 My Webasto Connect web service

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

The ThermoConnect TCon2 settings can be controlled using the My Webasto Connect web service.

9 Subscription

An active subscription is required to be able to use the ThermoConnect TCon2. A subscription fee is payable. You can find the General Terms and Conditions at https://my.webastoconnect.com.
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 Webasto Connect service). Check and renew the current subscription in My Webasto Connect web service.

NOTE
If the subscription is not renewed before expiration then the service will be suspended. A reactivation fee may be payable to reactivate the 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

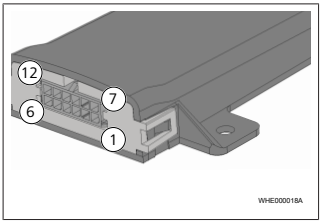


Fig. 3

(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 kΩ, 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 avoid installation close to the windscreen.

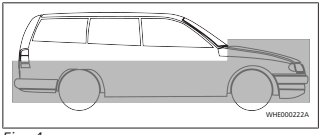


Fig. 4

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.

To get the best GPS and cellular antenna performance, the ThermoConnect TCon2 must not contact metal (e.g. chassis or fixing plates) in the marked areas, see Fig. 5.

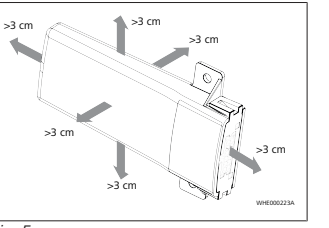


Fig. 5

▶ Mark the location of the ThermoConnect TCon2 in the drawing in Fig. 6.

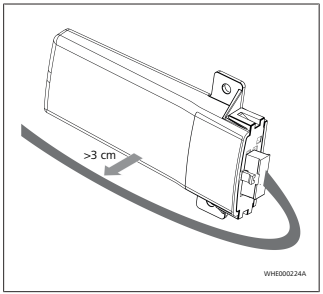


Fig. 6

WARNING
Risk of failure
Installation close to metal surfaces impairs the antenna reception. It can also cause damage to the device.
▶ Do not install the ThermoConnect TCon2 on metal surfaces.

For optimal reception of the mobile network and the GPS signal becomes one installation in the upper area of the dashboard recommended. Fig. 7 shows the recommended area.

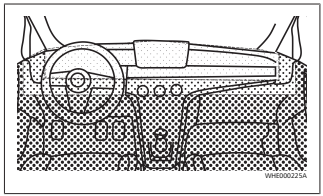


Fig. 7

	Recommended area
	Moderate range
	Not recommended area

10.5 Installation of the pushbutton

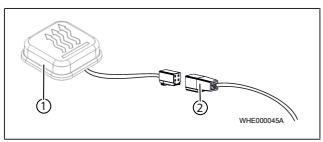


Fig. 8

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.

NOTE
The pushbutton must be located within the driver's field of view and operation.

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 5.

▶ 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

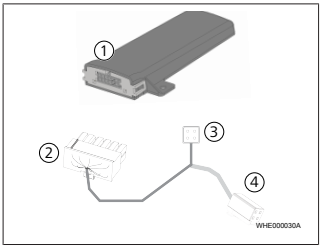


Fig. 9

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

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

11 Connector to connect to heater

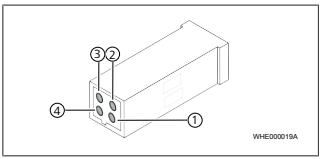


Fig. 10

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. 11

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

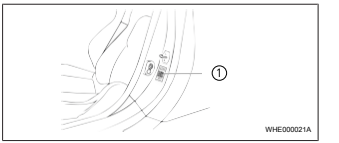


Fig. 12

- ▶ 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

Apple App Store and Google Play have the app available.

- ▶ Check that the mobile phone is connected to the internet.
- ▶ Go to the relevant app store and search for “ThermoConnect”. This step can also be performed by using the QR code.

– Apple App Store see Fig. 13
– Google Play see Fig. 14



Fig. 13



Fig. 14

- ▶ 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. 15

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

Step 2 of 4

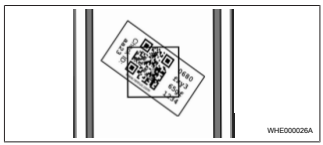


Fig. 16

- ▶ 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 find on the receiver. (See chapter 12 "QR-code labels" on page 8).

Step 3 of 4



Fig. 17

- ▶ Now any name can be entered for the ThermoConnect TCon2 and be confirmed by clicking "✓".

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 may use 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

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

14 Fault messages

The following heater faults are displayed as fault messages in the ThermoConnect app.

You will find further information in the operating instructions for the heater.

WARNING
Inspections and repairs on heaters must only be carried out by trained personnel.

Fault messages	Fault code	Description
Heater overheating	0x06	Overheating lock-out has tripped (heater overheated).
Heater lock-out	0x07	Heater lock-out was activated.
Permanent heater lock-out	0x87	Permanent heater lock-out was activated.
Operating voltage too low	0x84	Supply voltage is too low. Charge the battery and check car electrical installation.
Supply voltage too high	0x04	The operating voltage was higher than the maximum permissible value for too long.

15 Statutory regulations governing installation

Regulation	Typ approval number
ECE R10	E17 10 R - 050151

The provisions of these regulations are binding within the scope of EU Regulation 2018/858 and should also be observed in countries where there are no special 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 waste.

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.

The provisions of these regulations are binding within the scope of EU Regulation 2018/858 and should also be observed in countries where there are no special regulations! Failure to follow the installation instructions and the notes contained therein will lead to all liability being refused by Webasto.

16 Declaration of Conformity

CE-Declaration of Conformity and UKCA-Declaration of Conformity

The ThermoConnect TCon2 was developed, manufactured, tested and supplied in accordance with the relevant directives, regulations and standards for safety, EMC and environmental compatibility. Webasto declares that the product ThermoConnect TCon2 is manufactured and delivered in accordance with the directives and regulations.
The complete CE Declaration of Conformity and UKCA Declaration of Conformity can be found in the download area at https://dealers.webasto.com.

17 Technical data

ThermoConnect TCon2	Values
Operating voltage [V]	9 to 32
Average current consumption [mA]	15
Operating/storage temperature for receiver [°C]	-40 to +80

18 Dimensions

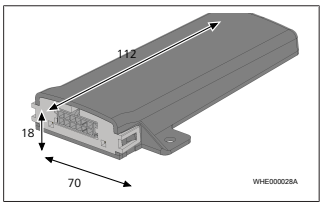


Fig. 18
All dimensions specified in mm.

In multilingual versions the English language is binding.
The telephone number of each country can be found in the Webasto service center leaflet or the website of the respective Webasto representative of your country.

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