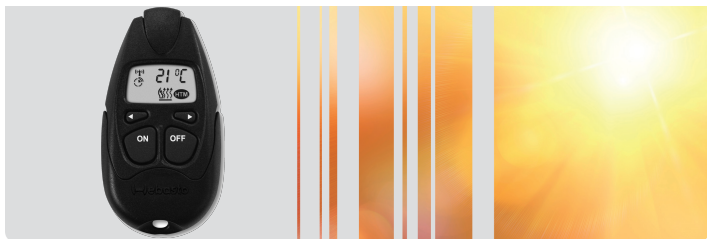


# Telestart T100 HTM

## Operating Instructions



# 1 About this document

## 1.1 Purpose of the document

These operating instructions are part of the product and provide the user with information on the safe operation of the Telearstart T100 HTM.

All the functions of the control element are explained in these operating instructions.



### NOTE

Carefully read through and follow the heater operating 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 Telearstart T100 HTM, carefully read and follow these operating instructions as well as the operating instructions for the heater.
- Hand over the quick start guide(s) to the subsequent device owner or user.

## 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 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.



#### **DANGER**

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

Do not operate a defective Telearstart T100 HTM and put it out of service by removing the fuse:

- prolonged heavy smoke development
- unusual burner noise
- smell of fuel
- permanent fault switch-offs with error messages (flash code)
- damaged heater.

▶ Contact a Webasto service workshop.

## 4 Intended use

The control element Telestart T100 HTM is currently approved for the following applications:

Switching Webasto water heaters on and off.

## 5 Overview



- ① Housing with transmitter
- ② Display
- ③ Arrow push button ◀ : Select the Settings menu
- ④ Push button ON : Switch on heater or ventilation
- ⑤ Battery housing cover
- ⑥ Arrow push button ▶ : Select the Settings menu
- ⑦ Push button OFF : Switch off heater or ventilation





### NOTE

The following generally applies: Press the ON and OFF buttons at the same time to navigate from the information display to the corresponding setting mode. The respective symbol flashes. Change the setting by pressing ◀ and/or ▶. Press buttons ON and OFF at the same time again to exit the Setting mode and apply the set values.

### 5.1 Explanation of the display symbols

Symbol	Function	Symbol	Function
	Battery empty (full: no battery symbol display)		Reception display (when transmitting)
	Battery at half capacity (full: no battery symbol display)		HTM Heating Time Management
	Start-out time		Heating
	Comfort mode (example of comfort level 4, area 1 to 5)		Time

Symbol	Function	Symbol	Function
	Operating time		Ventilation

## 6 Functional description



The heating time management (HTM) system calculates the heating time and the heater switch-on time depending on the passenger compartment temperature of the vehicle and the selected comfort level. Follow the setting options described below.

An optimum signal transmission is achieved in an open area or from elevated locations. This makes it possible to operate the parking heater at distance of approximately 1000 m from the vehicle.

When pressing the transmitter, hold it vertically upwards and do not cover the top (see figure). If a radio transmission takes place between the Telestart T100 HTM transmitter and the receiver, this is indicated by the symbol in the upper left corner of the display.

If you determine, since there is no feedback, that the operating signal has not reached the vehicle, it frequently helps to change your location by a few meters. Reception in built-up areas is limited accordingly.



### NOTE

When retrofitting heaters that are installed ex-works, the range of functions may be limited. Please consult your installation partner about this.



### NOTE

**OK** : The signal has been received and forwarded to the heater.

**FAIL** : Error during signal transmission. Move to a different location and repeat procedure.

## 7 Setting up a vehicle heating system

- ▶ Before switching on the heater (with the ignition on), set the vehicle heating system to "warm".
- ▶ Set the vehicle fan to the lowest setting (lower power consumption).

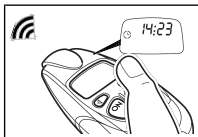


### NOTE


Depending on the type of vehicle, the air-conditioning system can perform these settings automatically or partly autonomously. Ask your specialist dealer to explain the optimum settings.

## 8 Time

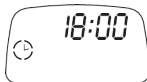
### 8.1 Call up time



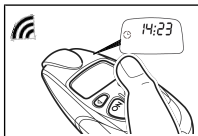
#### Necessary action

- ▶ Press the  push button once until the time is displayed.

#### Indicator



### 8.2 Setting the time








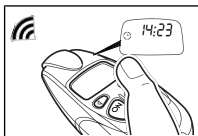
#### Necessary action

- ✓ The time is called up.
- ▶ Press the ON and OFF buttons simultaneously.



#### Indicator



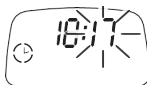
- ▶ Press the  or  push button. Set the desired hour.
- ▶ Press the  and  buttons simultaneously.
- ▶ Press the ON and OFF buttons simultaneously. The  symbol stops flashing. The heating time is set.



#### Necessary action

- ▶ Press the  or  push button. Set the desired minutes.

#### Indicator



- ▶ Press the ON and OFF buttons simultaneously. The symbol stops flashing. The time is set.

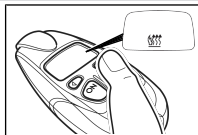
## 9 Operating mode

### 9.1 Calling up the operating mode



#### NOTE

The ventilation function is optional.



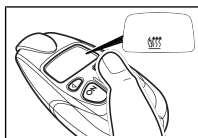
#### Necessary action

- ▶ Press the push button three times until the heating or ventilation symbol is displayed.

#### Indicator



### 9.2 Setting the operation mode



#### Necessary action

- ✓ The heating or ventilation operating mode is selected.
- ▶ Press the ON and OFF buttons simultaneously. The indicator flashes.

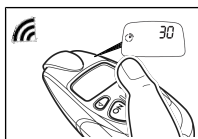
#### Indicator



- ▶ Press the or button. Select heating or ventilation .
- ▶ Press the ON and OFF buttons simultaneously. The operating mode is set.

## 10 Heating time

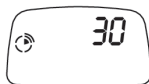
### 10.1 Calling up the heating time



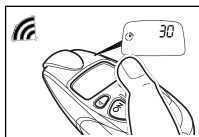
#### Necessary action

- ▶ Press the push button four times until the heating time is displayed.




#### Indicator



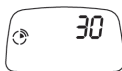
## 10.2 Setting the heating time



### Necessary action

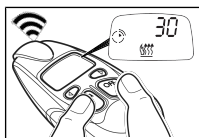
- ▶ Press the ON and OFF buttons simultaneously.
  - ▶ Press the  or  push button. Set the desired minutes.
- ▶ Press the ON and OFF buttons simultaneously. The  symbol stops flashing. The heating time is set.

### Indicator




## 11 Switch on the heater

### 11.1 Hand-held transmitter



### Necessary action

- ▶ Press the ON button.
-  : The signal has been received and forwarded to the heater.

### Indicator





As a switch-on check, the display shows the symbol for operation and the remaining operation time (heating time in the example is 30 minutes).

## 12 Switching off the heater



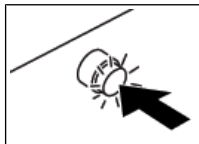
### Necessary action

- ▶ Press the OFF button.
- The  heating or  ventilation symbol goes out.

### Indicator



### 12.1 Switching on and off with the push button



- ✓ The parking heater or parking ventilation mode is displayed on the push button.
- ▶ Press the push button (switch the heater or ventilation on or off).



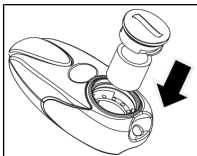
## 13 Pairing the hand-held transmitter

The hand-held transmitter Telestart T100 HTM must be paired with the Telestart receiver in the vehicle.

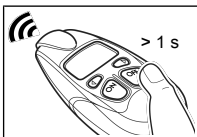
### 13.1 Determining the installation position of the fuse

Depending on the heater and its installation or application, the Telestart fuse is installed in the engine compartment or the vehicle interior.

### 13.2 Teaching the unit



- ▶ Insert battery in the battery compartment of the hand-held transmitter.



- ▶ Press the OFF push button (hold it for at least 1 s). The hand-held transmitter has now been taught.



## 14 HTM Heating-Time-Management



### Information regarding the heating time:

We recommend matching the heating time to the driving time (heating time = driving time)

**Example:** for a driving time of approx. 20 min. (in one direction), we recommend not exceeding a switch-on time of 20 min.

Heating time management  /  enables automatic preheating (not ventilation) of the vehicle for a selected start-out time.


The system determines the preheating time of the parking heater depending on the passenger compartment temperature of the vehicle.

The passenger compartment temperature reached at the start-out time can be influenced by 5 comfort levels (C1 to C5). C1 is the lower comfort temperature (short operating time) and C5 is the higher comfort temperature (long operating time). The start-out time can be activated up to 24 hours in advance.

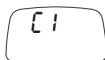
### 14.1 Displaying the comfort level



#### Necessary action

- ▶ Press the  push button three times until the comfort level is displayed.

#### Indicator



## 14.2 Changing the comfort level



### NOTE

The start-out time must first be deactivated. See "Deactivating the start-out time on page 11".



#### Necessary action

- ✓ The comfort level has been selected.
- ▶ Press the ON and OFF buttons simultaneously. The comfort level symbol flashes

#### Indicator



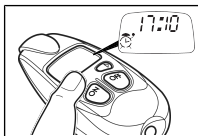
- ▶ Press the  or  push button. Set the desired comfort level.





- ▶ Press the ON and OFF buttons simultaneously. The comfort level symbol stops flashing.

The comfort level is set.

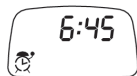
## 14.3 Calling up the start-out time



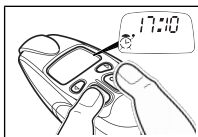
#### Necessary action

- ▶ Press the  push button two times until the start-out time  is displayed.

#### Indicator



## 14.4 Setting the start-out time



### Necessary action

- ✓ The start-out time is selected.
- ▶ Press the ON and OFF buttons simultaneously.

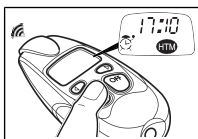
### Indicator



- ▶ Press the ◀ or ▶ button. Select the desired start-out time.
- ▶ Press the ON and OFF buttons simultaneously.

The  symbol stops flashing. The start-out time is set.


## 14.5 Activating the start-out time



### Necessary action

- ✓ The start-out time must be set, see "Setting the start-out time on page 11".
- ▶ Calling up the start-out time, see "Calling up the start-out time on page 10".

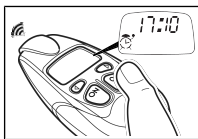
- ▶ Press the ON button.

The display contains the symbol for heating time management  and the start-out time.

### Indicator



## 14.6 Deactivating the start-out time




### Necessary action

- ✓ The start-out time must be set, see "Setting the start-out time on page 11".
- ✓ Calling up the start-out time, see "Calling up the start-out time on page 10".

✓ The start-out time must be activated, see "Activating the start-out time on page 11".

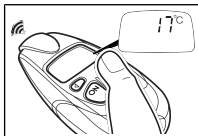
- ▶ Press the OFF button.

The  symbol disappears. The start-out time is deactivated.


### Indicator



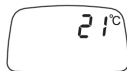
## 15 Displaying the vehicle temperature



### Necessary action

- ▶ Press the  push button two times until the temperature is displayed.

### Indicator



### NOTE

The displayed temperature corresponds to the passenger compartment temperature near the installation location of the temperature sensor. In case of severe temperature fluctuations, the actual temperature may be displayed with a delay at the temperature sensor.

## 16 Battery



### ATTENTION

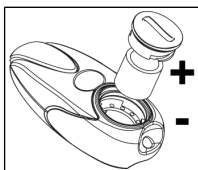
Improper use can cause the batteries to leak, overheat or explode.

- ▶ When handling the battery, follow all instructions and warnings that are supplied with or printed on the battery.
- ▶ The battery is not rechargeable therefore never attempt to charge the battery.
- ▶ Never short-circuit the battery.
- ▶ Never expose the battery to high heat.
- ▶ Do not transport the battery together with metal objects, e.g. necklaces or hair pins.
- ▶ The risk of the battery leaking is greatest when the battery is discharged. To avoid damage to the hand-held transmitter you should remove the battery when it is discharged or if the hand-held transmitter will not be used for a prolonged period.
- ▶ If liquid from a damaged battery comes in contact with clothing, the eyes or the skin, immediately flush the affected area with ample water.
- ▶ Dispose of the battery in accordance with locally applicable disposal regulations. Insulate the contacts with insulating tape.
- ▶ Keep new and used batteries out of the reach of children. Swallowing the battery can seriously damage your health. If a battery is swallowed immediately seek medical assistance.

## 16.1 Battery disposal

Dispose of packaging in corresponding recycling container in accordance with national regulations.

## 16.2 Changing the battery



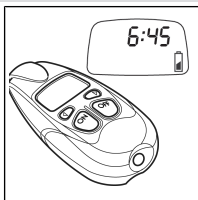
- ▶ Ensure the correct polarity when inserting the battery into the hand-held transmitter.

## 16.3 Battery status



### NOTE

When the battery is fully charged, no charge state is displayed.



### Charge state

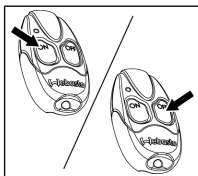
Battery at half capacity

Battery flat

### Display example



## 16.4 Hand-held transmitter battery status



- ▶ Press the ON or OFF push button. (The heater may be activated or deactivated here.)

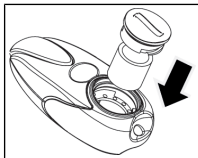
LED display	Battery status
Lights green or red for 2 s.	Battery is OK.
Flashes green or red for 2 s.	Battery is OK. The receiver is too far away or the transmitter has not been paired.

LED display	Battery status
Lights orange for 2 s.	Almost spent. Very cold. Battery is almost spent; replace it as soon as possible. Transmitter heats up.
Flashes orange very quickly for 5 s.	Battery flat. Replace battery.
No display.	Battery flat. Replace battery.

## 16.5 Restarting

To extend the life of the battery, we recommend removing the battery from the hand-held transmitter if it is not to be used for a longer period of time.

- ▶ Insert the battery. See "Teaching the unit on page 9".



- ▶ Insert battery in the battery compartment of the hand-held transmitter.

## 17 Maintenance and handling

Battery and hand-held transmitter:

- Avoid damage.
- Do not let it heat up over 70°C (e.g. direct sunlight).
- Operating temperature between 0°C to +50°C.
- Only store the unit in a dry and dust-free environment.
- Protect against moisture
- Only clean the display with a clean and dry cloth.

## 18 Annex

### 18.1 Statutory regulations governing installation

Regulation	Type-approval numbers	
Electromagnetic compatibility	ECR R10 10R – 047488	Telestart T100 (receiver)



#### NOTE

The stipulations of these regulations are binding in the area covered by Regulation (EU) 2018/858 and should also be observed in countries where there are no specific regulations.



Failure to follow the installation instructions will result in the invalidation of the type approval for the control element and therefore invalidation of the general homologation of the vehicle.

### 18.2 Declaration of Conformity

CE-Declaration of Conformity and UKCA-Declaration of Conformity

The Telestart T100 HTM 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 Telestart T100 HTM 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>.

To request this Installation Documentation in another language, please locate and contact your local Webasto dealer. You can find your nearest dealer at: <https://dealerlocator.webasto.com/en-int>.

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Europe, Asia Pacific

UK only

Webasto Thermo & Comfort SE  
Postfach 1410  
82199 Gilching  
Germany

Webasto Thermo & Comfort UK  
Ltd  
Webasto House  
White Rose Way  
Doncaster Carr

Company address:  
Friedrichshafener Str. 9  
82205 Gilching  
Germany

DN4 5JH  
United Kingdom

Only within Germany  
Tel: 0395 5592 229

**UK  
CA CE**

[www.webasto.com](http://www.webasto.com)

