



# ContiPressureCheck™

The system for permanent tire pressure monitoring



User manual



## ContiPressureCheck™

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# 1 General

## 1.1 Information on this user manual

The information listed here serves to become familiar with the display and the ContiPressureCheck™ system and make full use of its functions.

	NOTE
	<ul style="list-style-type: none"><li data-bbox="359 437 977 520">▶ This manual applies to the ContiPressureCheck™ software package with firmware (FW) 7.00 or higher. The user can see this from the software status of the display or the Central Control Unit, (CCU). The software status of the display is indicated by simultaneously pressing the SET and OK buttons and must be software (SW version) 03.40 or higher. As an alternative to the display, the software status of the CCU can be read using the hand-held tool in the respective vehicle via the Diagnosis - SW Update menu and must be software 1.27 or higher.</li><li data-bbox="359 820 977 928">▶ If the software of the display or CCU is older, please contact your CPC supplier or the authorized workshop that installed the CPC system and have the system updated</li></ul>

The user manual must always be in the immediate vicinity of the display. It must be read and observed by everyone who is involved with

- Installation,
- startup and
- operation

of the display and of the ContiPressureCheck™ system.

## 1.2 Liability disclaimer

The manufacturer assumes no liability for damage and operational faults resulting from:

- failure to observe this user manual,
- use for other than the intended purpose,
- faulty installation,
- technical changes and modifications.

## 1.3 Copyright

This user manual is copyrighted.

This user manual may not be duplicated either wholly or in part without the express permission of Continental Reifen Deutschland GmbH.

## 1.4 Abbreviations

The following abbreviations are used in this user manual:

Abbreviation:	Meaning
ATL*	Auto Trailer Learning
CPC	ContiPressureCheck™
SO*	Surrounding Observer
SWE*	Single Wheel Exchange
HHT	Hand-held tool

\* Optional functions that are not activated for all CPC systems.

## 1.5 Explanation of symbols

Warnings in this user manual are also indicated by warning symbols.

The following warning symbols are used in this user manual:

Symbol	Meaning
	General warning
	General instructions and useful suggestions on handling
	Note on observing environmental regulations for disposal
	Electric/electronic components with this symbol may not be disposed of in the normal household waste.

## 1.6 Warnings

In the current user manual, the following warnings are used:

	<p style="text-align: center;"><b>⚠ WARNING</b></p> <p><b>A warning of this hazard level indicates a hazardous situation.</b></p> <p>If the hazardous situation is not avoided, it can result in serious injuries.</p> <ul style="list-style-type: none"><li>▶ Follow the instructions in this warning to avoid serious injuries to persons.</li></ul>
	<p style="text-align: center;"><b>ATTENTION</b></p> <p><b>A warning of this category indicates potential danger to property.</b></p> <p>If the situation is not avoided, it may lead to damage to property.</p> <ul style="list-style-type: none"><li>▶ Follow the instructions in this warning to avoid damage to property.</li></ul>
	<p style="text-align: center;"><b>NOTE</b></p> <ul style="list-style-type: none"><li>▶ A note contains additional information that is important for further processing or for simplifying the procedure step explained.</li></ul>

## 1.7 Manufacturer's address

**Continental Reifen Deutschland GmbH**

Büttnerstraße 25

30165 Hannover

Germany

*[www.contipressurecheck.com](http://www.contipressurecheck.com)*

## 1.8 After-sales service

In the case of technical questions on the display, pressure control indicator or the entire ContiPressureCheck™ system, please contact your CPC supplier or the authorized garage that installed the CPC system.

## 2 Technical data display

Dimensions (L x W x H)	117 x 107 x 40 4.60 x 4.21 x 1.57	mm inch
Weight	240 8.47	g oz
Supply voltage	12/24	V
Number of plugging cycles, min.		
Connecting plug diagnosis	100	cycles
Connection plug supply	10	cycles
Number of plugging cycles, min.		
Connecting plate holder for the display	5	cycles
Operating temperature	-40 to 85 -40 to 185	°C °F
Readability of the LCD without restrictions	-20 to 80 -4 to 176	°C °F

## 3 Safety

### 3.1 Intended use

The display is only intended for displaying the data detected by the CPC system (air pressure and temperature of the tires) as well as warning messages.

The pressure control indicator installed in the trailer is intended to be used for displaying the status of the CPC system at the trailer using light signals.

Use for any other purpose is not considered as intended use.

	<b>⚠ WARNING</b>
	<p><b>Danger resulting from improper use!</b></p> <p>Any use other than and/or going beyond the intended use of the CPC system can lead to damage and serious injuries.</p> <p>▶ Use the system only for its intended purpose.</p>

No claims of any kind will be accepted for damage resulting from use of the appliance for other than its intended purpose.

In such cases, the risk must be borne solely by the user.

## 3.2 General safety instructions

Observe the following general safety instructions to ensure safe handling of the CPC system:

- The operator must ensure that tires in which tire sensors are installed, are only operated in vehicles, in which monitoring is ensured by the CPC system.
- If continuous technical monitoring is not ensured, the operator must make sure that the condition of the tire sensor is checked regularly, at the latest after 20,000 km (12,425 miles).
- In the case of continued use of the tires on other vehicles where monitoring is not ensured, the tire sensors must first be removed from the tires.
- The operator of the vehicle must ensure that the CPC system is properly installed and put into operation. This includes setting the nominal pressures recommended in the tire guide, correct assignment of the tire sensors to the wheel position, etc.

Observe the following general safety instructions to ensure safe handling of the display:

- Check the display for visible damage before using. Do not put a damaged display into operation.
- Never open the housing of the display.
- The display is designed for a temperature range from -40 °C to 85 °C (-40 to 185 °F) however, temporary display errors may occur at temperatures lower than -20 °C (-4 °F) or above 80 °C (176 °F).
- Protect the display against moisture and penetration by liquids.

## 3.3 Particular hazards

### **Special characteristic in the case of vehicles for hazardous substances (ADR):**

- If the CPC system is installed in a vehicle for hazardous materials (ADR) and the CPC system remains switched on although the vehicle ignition is switched off, it is possible that sparks, other ignition sources or similar could lead to a reaction with the hazardous material in the event of a fault. This can result in accidents and serious injuries.
  - For this reason, it is absolutely necessary when parking vehicles for hazardous substances to disconnect the CPC system from the power supply (normally via the battery main switch)

## 4 Tool overview

### 4.1 Operating keys



But- ton	Symbol	Task
1	SET	Switch between vehicle view and setup
2	↓	Navigation between menu items and warning messages
3	OK	Confirmation of the selected menu item
4	(...)/(F)	Switch between pressure or temperature display in the vehicle view

## 5 Mounting the display

	<b>⚠ WARNING</b>
	<p><b>Risk of injury!</b> The risk of injury cannot be ruled out if the installation instructions are not followed.</p> <ul style="list-style-type: none"><li>▶ Mount the display offset to the side of the driver and the front passenger(s).</li><li>▶ Do not mount the display in the impact zone of the body or the head and not in the airbag area (driver &amp; front passenger).</li></ul>

	<b>NOTE</b>
	<p><b>The vehicle driver must have a sufficient field of view under all operating and weather conditions.</b></p> <ul style="list-style-type: none"><li>▶ Mount the display so that the field of view of the driver is not restricted.</li></ul>

## 5.1 Display holder with suction caps for attaching to the windscreen

To attach the display to the windscreen to the display holder, use the suction caps.

- ◆ Connect the display with the display holder supplied. Make sure that the display is completely snapped and locked into the holder.
- ◆ Choose a suitable location on the windscreen. Pay attention to possible dazzling by sunlight.

	<b>NOTE</b>
	<p><b>National regulations!</b></p> <p>▶ If national regulations stipulate that devices may not be attached to the windscreen, mount the display with the holder according to chapter <b>“5.2 Display holder for screwing to the dashboard”</b></p>

## 5.2 Display holder for screwing to the dashboard

To mount the display to the dashboard, glue and screw the display holder to the dashboard.

- ◆ Connect the display with the display holder supplied.
- ◆ Chose a suitable location on the dashboard. Pay attention to possible dazzling by sunlight.

	<b>ATTENTION</b>
	<p><b>Damage!</b></p> <p>In the case of improper screwing of the display holder, it is possible to damage components or cables in the dashboard of the vehicle:</p> <p>▶ Before screwing tight, maker sure that components or cables cannot be damaged when fixing the display holder.</p>

# Mounting the display

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- ◆ Remove the display from the holder.
- ◆ Pull off the protective foil of the contact surfaces on the holder and glue the holder to the desired location.
- ◆ Also screw the holder into the dashboard with the 2 screws supplied.
- ◆ Connect the display with the display holder supplied. Make sure that the display is completely snapped and locked into the holder.

	NOTE
	<p><b>It is recommended to fix the display by gluing and screwing!</b></p> <ul style="list-style-type: none"><li>▶ The adhesive foil compensates unevenness between the holder and installation location and ensures a tighter fit.</li><li>▶ The screws secure the holder against vibration during operation and therefore against unintentional loosening.</li></ul>

	NOTE
	<p><b>Dismantling the display holder!</b></p> <ul style="list-style-type: none"><li>▶ After dismantling the display holder, two holes remain in the dashboard. In addition, residual adhesive could remain on the dashboard.</li></ul>

## 5.3 Adjusting the display

- ◆ Adjust the display with the help of the holder.

	NOTE
	<ul style="list-style-type: none"><li>▶ The display must always be clearly visible to the driver.</li></ul>

## 6 Commissioning

### 6.1 Start screen



The start screen is displayed for **10 seconds** after ignition.

### 6.2 Warnings

After the start screen is displayed, the applicable warnings for proper use of the system are displayed for 30 seconds at a time.

The warning message for deactivated warnings only appears if the warning messages on a special vehicle have been deactivated.

The setting can be selected during configuration with the hand-held tool and suppresses any warning messages except for the pressure loss warning message.



In addition to the warning, the corresponding icon for deactivated warnings is permanently displayed on the screen.

## 6.3 Automatic Language Query

	NOTE
	▶ By default, the automatic language query is activated for initial startup

- If the automatic language query is activated, the display switches from the start screen to setup - Language view, see chapter “**6.3.1 Setting the language for automatic language query**”.

If no button is pressed within 15 seconds, the display switches automatically to the vehicle view.

- If the automatic language query is deactivated, the display immediately switches from the start screen to the vehicle view.

## 6.3.1 Setting the language for automatic language query

If the automatic language query is activated, the Settings - Language view appears for 15 seconds.



- ◆ Press the  button to select a language (the selected language is highlighted).
- ◆ Press the **OK** button to confirm the language selection. The display switches to the vehicle view.

## 6.3.2 Activate/deactivate automatic language query

- ◆ Press the **SET** button, the Setup view is displayed.
- ◆ Press the  button to select the "Language" menu item.
- ◆ Press the **OK** button to confirm.
- ◆ Press the  button to select the "Autostart" menu item.
- ◆ Select "Autostart ON" or "Autostart OFF" with the **OK** button.

## 7 Operation

### 7.1 Safety precautions

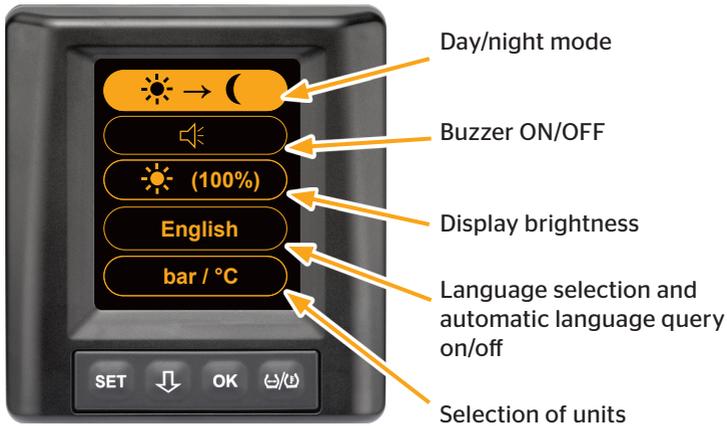
	<b>⚠ WARNING</b>
	<p><b>Danger of accident!</b></p> <p>Operating the display while driving can lead to accidents.</p> <ul style="list-style-type: none"><li>▶ Do not operate the display while driving.</li><li>▶ View the screen only if the traffic situation allows.</li></ul> <p>An incorrectly or carelessly mounted display can impair driving safety!</p> <ul style="list-style-type: none"><li>▶ Before each journey, check the seating of the display and stability of the holder.</li></ul>

- The ContiPressureCheck™ system supports monitoring of tire pressure. The responsibility for the correct pressure lies with the driver.
- Increase the tire pressure only when the tire temperature corresponds to the ambient temperature.
- The ContiPressureCheck™ system is a comfort system. It cannot be completely ruled out in the event of adverse conditions that the CPC system does not display any warnings or conversely, that the CPC system displays an incorrect warning.

	<b>NOTE</b>
	<ul style="list-style-type: none"><li>▶ Use of snow chains can impair the transmission power of the tire sensors in the corresponding tires. This can lead to a delay in transmitting the tire pressures and the resulting warning messages for those tires.</li></ul>

## 7.2 Setup menu

The following functions can be set in the settings menu:



### 7.2.1 Open the settings menu

- ◆ Press the **SET** button to open the settings menu.

### 7.2.2 Navigating the settings menu

Button	Task
↓	Select between the menu items, selection is highlighted
<b>OK</b>	Change settings or open submenus
<b>SET</b>	Return to vehicle view

If no button is pressed within 30 seconds, the display switches automatically to the vehicle view

# Operation

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## 7.2.3 Day/night mode

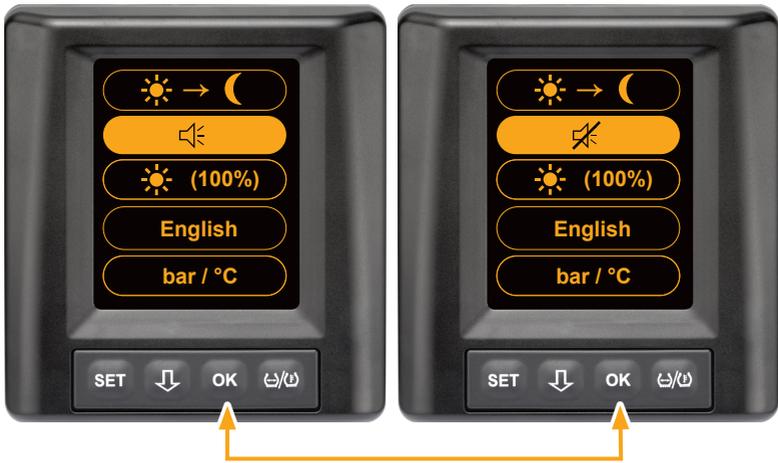
<b>i</b>	NOTE
	▶ The display brightness is adjusted to the day and night conditions with the day/night mode. No dazzling during night driving and sufficient readability during the day.



- ◆ Press the **OK** button to switch to the night mode or the vice versa. Switching depends on the last setting. The display switches back to the vehicle view.

7.2.4 Switching the buzzer ON/OFF

<b>i</b>	NOTE
	<ul style="list-style-type: none"> <li>▶ The buzzer can be switched on to emit an alarm when a warning message is displayed.</li> <li>▶ A deactivated buzzer switches itself on again automatically after the display has been switched on 50 times.</li> </ul>



- ◆ Press the **OK** button to switch the buzzer on or off.
- ◆ Press the **SET** button to confirm the selected setting and switch to the vehicle view.

# Operation

## 7.2.5 Display brightness

<b>i</b>	<b>NOTE</b>
	<ul style="list-style-type: none"><li>▶ The display brightness can be adjusted to the needs of the driver.</li><li>▶ Day mode: it is possible to select a brightness level of 50 %, 75 % and 100 %.</li><li>▶ Night mode: it is possible to select a brightness level of 5 %, 10 % and 20 %.</li></ul>



- ◆ Press the **OK** button to display the Brightness settings sub menu.



- ◆ Press the **↓** button to select the desired brightness level as a percentage.
- ◆ Press the **OK** button to confirm the selection and return to the settings menu.
- ◆ Press the **SET** button to return to the settings menu without changes.

## 7.2.6 Selecting the language

<b>i</b>	NOTE
	▶ The language setting can be adjusted to the needs of the driver.



- ◆ Press the **OK** button to display the Language sub menu.
- ◆ Press the **↓** button to select a language (the selected language is highlighted).
- ◆ Press the **OK** button to confirm the selection and return to the settings menu.
- ◆ Press the **SET** button to return to the settings menu without changes.

# Operation

## 7.2.7 Selecting units

<b>i</b>	<b>NOTE</b>
	▶ The units for displaying the pressure and the temperature can be adjusted to the requirements of the driver.

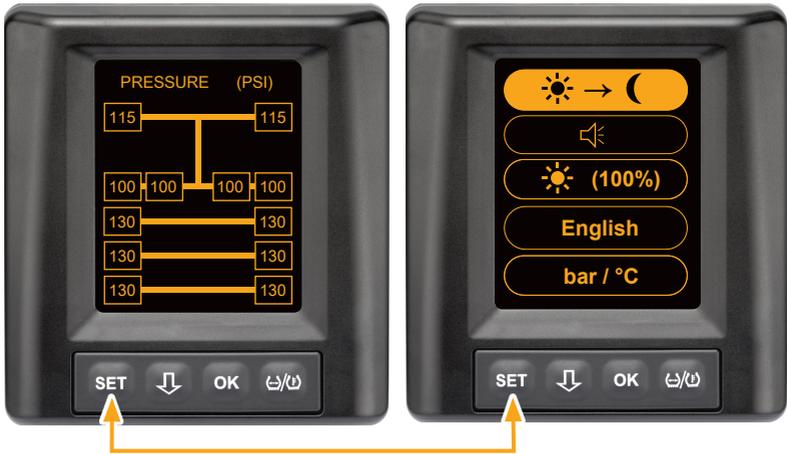


◆ Press the **OK** button to switch between

- "bar/°C"
- "psi/°C"
- "psi/°F"
- "bar/°F"

The change depends on the last setting.

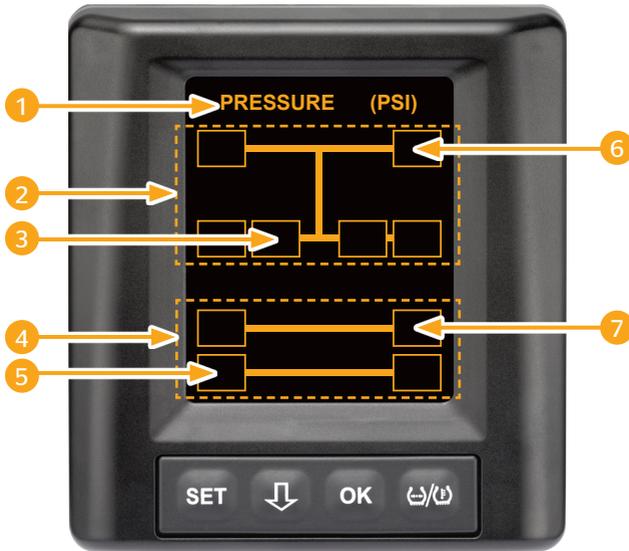
### 7.3 Switching between the vehicle view and the settings menu



- ◆ Press the **SET** button to switch between the vehicle view and the settings menu.

# Operation

## 7.4 Vehicle view: standard screen pressure/temperature monitor



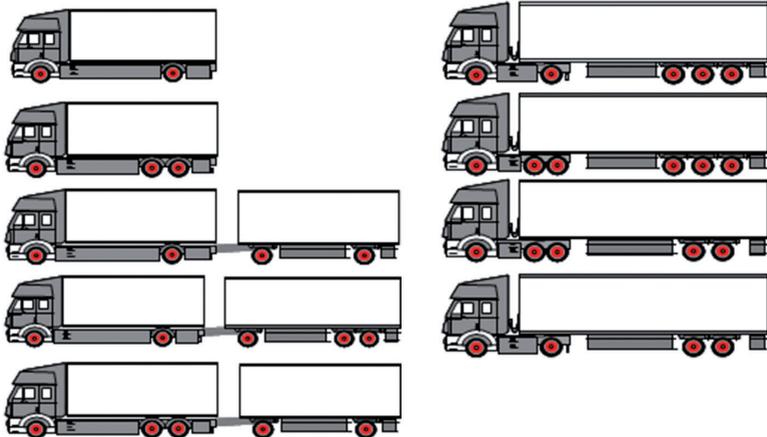
Area	Display
1	Info menu item
2	Symbol for a 4x2 truck (the vertical line is the symbol for truck)
3	Information box for: inner twin tires, 2nd axis, left side truck
4	Symbol for a 4-wheel trailer
5	Information box for: tires, 2nd axis, left side trailer
6	Information box for: tires, steering axle, right side truck
7	Information box for: tires, 1st axis, right side trailer

## 7.5 General operation (without automatic trailer detection)

### 7.5.1 General

<b>i</b>	NOTE
	<ul style="list-style-type: none"><li>▶ The ContiPressureCheck™ system covers a variety of truck types and also truck-trailer combinations.</li><li>▶ If a truck/trailer combination remains connected for a longer period of time, the ContiPressureCheck™ system can be configured so that the tire pressures and temperatures of the trailers including the position can be represented in the display.</li><li>▶ If the trailer is replaced, the configuration in the truck must be updated, otherwise the NO SIGNAL warning for the trailer tires appears after a short time.</li></ul>

The following shows some truck versions and truck-trailer combinations:



# Operation

## 7.5.2 Start screen pressure/temperature monitoring

After starting up the vehicle, the following appears in the display:



The CPC system is ready for operation. Tire data is displayed just after the journey begins.



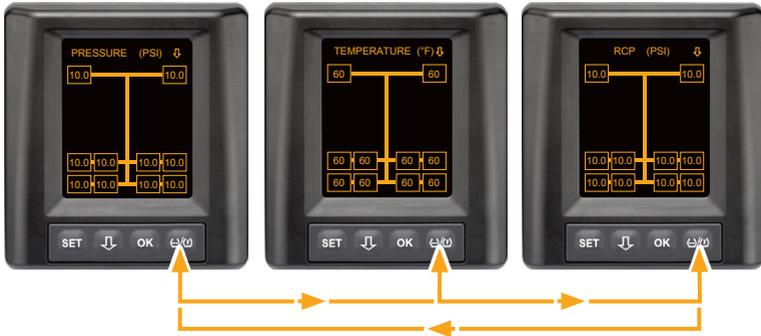
Tire data is received for the wheel position of the 2nd outer left axis.



Tire data is received for all wheel positions.

The values for the pressure and the temperatures inside the tires are within the permitted value range.

### 7.5.3 Switching between pressure, temperature and target pressure indicator

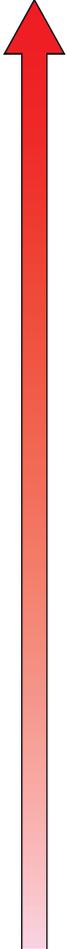


- ◆ Press the button to switch between the following:
  - Pressure indicator
  - Temperature indicator
  - Target pressure indicator (Recommended Cold Pressure "RCP")

NOTE	
	<ul style="list-style-type: none"> <li>▶ Pressing the  button while the "RCP" is being indicated returns to the pressure indicator.</li> </ul>

## 7.5.4 Warning message overview

	<b>NOTE</b>
	<ul style="list-style-type: none"><li>▶ The driver can be warned by a signal tone in the case of a warning message. The "Buzzer" function must be switched on for this purpose.</li><li>▶ In the even of a warning, respond as described in the following sections. If the warning persists even after taking action, the tires must be checked and the installation/configuration of the CPC system checked by a specialist garage.</li><li>▶ All actions described in the following sections must be performed at a traffic-free location (such as a car park, parking lot etc.).</li></ul>

Priority:	Level	Symbol	Warning message	Fault
<p>High</p>  <p>Low</p>	High	 3*)	FAST PRESS. LOSS	Continuous, fast pressure loss. Tire damage or even tire destruction is possible.
		 1*), 2*)	VERY LOW PRESSURE	The tire pressure falls below the recommended alarm threshold value. Tire damage or even tire destruction is possible.
		 2*)	CHECK SENSOR	The tire sensor is no longer properly fixed.
	Low	 1*)	LOW PRESSURE	The tire pressure falls below the recommended alarm threshold value. The tire could be damaged in the long term.
		 1*)	TEMPERATURE	The measured temperature in the tire exceeds 115 °C (239 °F). The tire sensor no longer functions at 120 °C (248 °F).
		 4*)	PRESSURE DIFF.	The pressure between two twin tires exceeds a fixed threshold. The tires could wear out differently in the long term.
			NO SIGNAL	Due to insufficient signal strength, it is not possible to display a sensor protocol.
		SENSOR DEFECT	Tire sensor defective	

1\*) Pressure value is only an example, threshold values can be stored according to the manufacturer's instructions by a specialist garage

2\*) High warning levels are indicated by flashing symbols changing between positive and negative mode..

3\*) The display changes between the symbol shown and the pressure value.

4\*) The symbol of the pressure difference warning message is displayed for the two affected twin tires between which the pressure difference was detected.

# Operation

---

## 7.5.5 Low-level warning messages

### 7.5.5.1 Tire sensor defective



**Warning type:** low-level warning

**Warning message:** sensor defect

**Error:** the tire sensor is defective.

**Action:** ask the garage to remove the tire as soon as possible and replace the sensor. (In the case of a defective tire sensor, no pressure/temperature warning is possible).

7.5.5.2 No signal



**Warning type:** low-level warning

**Warning message:** no signal

**Error:** due to insufficient signal strength, it is not possible to display a sensor protocol.

**Action:** the garage must clarify the cause for insufficient signal strength. If no signal is received, no pressure/temperature warning is possible.



**NOTE**

- ▶ Under adverse conditions (e. g., strong electromagnetic radiation, strong radio transmitter etc.), signal transmission from some tires can be disturbed so that a "NO SIGNAL" warning occurs.
- ▶ In the case of trucks, this procedure can take up to 20 minutes and for trailers, up to 40 minutes.
- ▶ During this time, no warnings are possible for the corresponding tire. The last received value is displayed until the NO SIGNAL appears.
- ▶ If a tire sensor is not received in the case of slow moving vehicles < 20 km/h (12.5 mph) or vehicles not moving (e.g., due to interference), then the NO SIGNAL message is not displayed. However, the corresponding tire position is empty / without content. It is then not possible to monitor the tire at this wheel position during this time and display warnings.

# Operation

## 7.5.5.3 Pressure difference



**Warning type:** low-level warning

**Warning:** Pressure diff.

**Error:** The pressure between two twin tires exceeds a fixed threshold. The tires could wear out differently in the long term.

**Action:** At the next possibility, adjust the pressure of the two twin tires.



### NOTE

- ▶ The function must be activated with the HHT and is therefore not available for every system.
- ▶ The check is only carried out at the beginning of the ignition cycle..  
[A possible warning message then remains open during the entire ignition cycle.]
- ▶ Increase the tire pressure only when the tire temperature corresponds to the ambient temperature. Otherwise there is a risk that the wrong pressure is set.

## 7.5.5.4 Temperature



**Warning type:** low-level warning

**Warning message:** temperature

**Error:** the measured temperature in the tire exceeds 115 °C (239 °F). The tire sensor no longer functions from 120 °C (248 °F).

**Action:** stop the truck immediately at a suitable location. Allow the tire concerned to cool down and then check it.

## 7.5.5.5 Low pressure



**Warning type:** low-level warning

**Warning message:** low pressure

**Error:** The tire pressure falls below the recommended alarm threshold value. The tire could be damaged in the long term.

**Action:** at the next opportunity (e.g., tire service, gas station, etc.) investigate the cause of low pressure and set the correct pressure. If the tire is damaged by a nail for example, arrange for the tire to be repaired or replaced by a specialist as soon as possible.



### NOTE

- ▶ Increase the tire pressure only when the tire temperature corresponds to the ambient temperature. Otherwise there is a risk that the wrong pressure is set.

# Operation

---

## 7.5.6 High-level warning messages

### 7.5.6.1 Check sensor

Both displays appear alternately at intervals of 1.5 seconds.



**Warning type:** high-level warning

**Warning message:** check sensor

**Error:** the tire sensor is not properly fixed.

**Action:** arrange for the tire to be removed as quickly as possible by specialist staff at a tire dealer and allow the tire sensor and tire sensor container to be replaced by a specialist.

## 7.5.6.2 Very low pressure

Both displays appear alternately at intervals of 1.5 seconds.



**Warning type:** high-level warning

**Warning message:** very low pressure

**Error:** the tire pressure falls below the recommended alarm threshold value. Tire damage or even tire destruction is possible.

**Action:** stop the truck at a suitable location as soon as possible and investigate the cause of the low pressure.

Top up the tire pressure and make sure that the tire is checked by a specialist as quickly as possible.

<b>i</b>	<b>NOTE</b>
	<ul style="list-style-type: none"> <li>▶ Increase the tire pressure only when the tire temperature corresponds to the ambient temperature. Otherwise there is a risk that the wrong pressure is set.</li> </ul>

# Operation

## 7.5.6.3 Fast pressure loss

Both displays appear alternately at intervals of 1.5 seconds.



**Warning type:** high-level warning

**Warning message:** fast press. loss

**Error:** continuous, fast pressure loss. Tire damage or even tire destruction is possible.

**Action:** stop the truck at a suitable location as soon as possible and investigate the cause of fast loss of pressure and ensure that the tire is checked by a specialist as soon as possible.

### 7.5.7 Multiple warnings

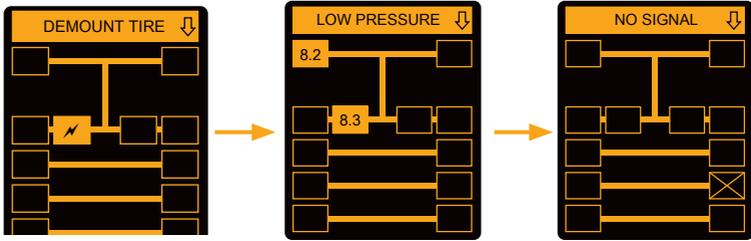
If various problems occur simultaneously, a multiple warning screen is displayed. Press the  button to call up different warning messages.

Example of warning messages



- ◆ The number of different warning messages appears in the Info menu item next to the symbol for truck and trailer (if available). If there is one and the same warning for several tire positions and no further faults, the warning message (e.g., low pressure) is displayed in the Info menu line. The number of warning messages is then not displayed. The symbol of the vehicle flashes when there is a high warning level warning signal.
- ◆ Press the  button to call up each individual warning screen successively.

# Operation



Individual warning screens show the symbols of the individual warnings.

The display of the individual screens changes every 1.5 seconds if a high-level warning occurs for the displayed tires.

For the meaning of the warning symbols, see chapter **“7.5.4 Warning message overview”**.

NOTE	
	<ul style="list-style-type: none"><li>▶ If there are several warnings for a tire position, only the warning with the highest priority is displayed in the multiple warning screen (see also <b>“7.5.4 Warning message overview”</b>).</li><li>▶ These warnings are displayed in the corresponding screen in the individual warning screens.</li></ul>

### 7.5.8 Special features when operating on special vehicles

For some special vehicles, it is necessary to set a target pressure of less than 1.8 bar.

In this case, all warnings except the pressure loss warning are deactivated.

The following warning appears each time the system is started:

**"Warnings for downstream pressure are deactivated , except 'Pressure Loss'."**



The deactivated warnings are permanently displayed on the screen during operation via a crossed-out exclamation mark in the upper right corner.

## 7.5.9 Automatic Single Wheel Exchange (SWE\*)

The "Automatic Single Wheel Exchange" (SWE) enables easy exchange of a single tire sensor.

	NOTE
	<ul style="list-style-type: none"><li>▶ If the ATL (Automatic Trailer Loading) function is activated, the then automatic Single Wheel Exchange (SWE) is deactivated.</li><li>▶ If a lifting axle is raised, the automatic Single Wheel Exchange (SWE) does not function. The new tire sensor can only be detected if all lift axles are lowered while driving. It is irrelevant at which position the wheel was exchanged.</li></ul>

If a single tire with tire sensor is replaced during operation, the CPC system detects this automatically. Reconfiguring with the mobile reading device is not necessary.

- The new tire sensor is usually detected automatically during the first journey after replacing the tire.
- This procedure is completed after approx. 10 minutes of driving. Prerequisite is a speed of min. 30 kmh (19 mph) during the duration of driving.
- No pressure value is visible in the corresponding tire symbol during this learning procedure.

	NOTE
	<ul style="list-style-type: none"><li>▶ If the detection fails during the first drive, the message "NO SIGNAL" appears on the display for this tire position and the pressure control indicator flashes slowly.</li><li>▶ To restart wheel exchange detection, the vehicle must have been standing still for 20 minutes. The CPC system restarts the automatic Single Wheel Exchange (SWE) each time until the new wheel has been detected.</li></ul>

\* SWE is an optional function and is not activated in all CPC systems.

## 7.6 Operating with Automatic Trailer Learning (ATL\*)

### 7.6.1 General

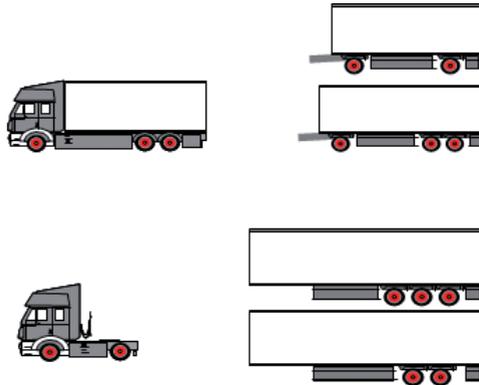
	NOTE
	<ul style="list-style-type: none"><li>▶ The ContiPressureCheck™ system is installed and configured for a certain truck combination.</li><li>▶ When trailers are changed frequently, the ATL function (Automatic Trailer Learning) is installed in the truck system.</li><li>▶ ATL allows different trailers to be monitored without the need to update the configuration of the truck system.</li><li>▶ The number of trailer changes is unlimited. The prerequisite is that each tire on the trailers to be monitored is equipped with tire sensors.</li><li>▶ In order for the Automatic Trailer Learning (ATL) to function, the vehicle must be moved over a time of &gt; 10 minutes at a speed &gt; 30 km/h (19 mph).</li></ul>

\* ATL is an optional function and is not activated in all CPC systems.

# Operation

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The following shows two examples for truck-trailer combinations with automatic trailer detection:



## NOTE

If an independent, complete ContiPressureCheck™ system is installed in a trailer (status indicator via a pressure control indicator installed on the trailer), and if the trailer is also monitored from the truck, then all warning messages must always be investigated even when they are only displayed on one of both systems.

## 7.6.2 Automatic Trailer Learning with tire position

It is possible to display the tire position of an ATL-monitored trailer if:

- The function has been activated in the truck system.
- The tire position was stored on the sensors of the trailer to be monitored.
- The signals of all tire sensors of the trailer to be monitored are received.

If the display of the tire position for the trailer tires is active, the behavior of the system after completion of the automatic trailer recognition corresponds to the behavior described under “**7.5 General operation (without automatic trailer detection)**”.

If not all of the above conditions are met, the trailer will be monitored without displaying the tire position. In this case, warnings are displayed as described in chapters **7.6.3** to **7.6.5**.

	<b>NOTE</b>
	To enable the display of the tire position of trailer tires, all lift axles on the trailer must be lowered until automatic detection is completed.

# Operation

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## 7.6.3 Start screen for automatic trailer learning

After starting up the vehicle, the following appears in the display:



The CPC system is ready for operation. Tire data is displayed just after the journey begins. The automatic trailer detection (ATL) is not yet complete.



Data is received for all truck wheel positions and the automatic trailer detection (ATL) is not yet complete.

When the automatic trailer detection has been completed, one of the following messages appears on the display:



This display appears when the conditions for automatic trailer detection with tire position are met. The values of the trailer tires are displayed individually with the position. Their display corresponds to that of truck tires.



This display appears when the conditions for automatic trailer detection with tire position are not met and the values for inflation pressure and temperatures inside the tire are within the permissible value range.

NOTE	
<b>i</b>	<ul style="list-style-type: none"> <li>▶ If the conditions for automatic trailer detection with tire position are not met, the values of the trailer tires are only displayed if the tire has a problem. This happens without position indication.</li> </ul>

# Operation

## 7.6.3.1 No trailers found with tire sensors



Data is received for all truck wheel positions, the automatic trailer detection (ATL) is not yet complete however, no trailer with tire sensors was found.



After 60 seconds.

### 7.6.3.2 Special cases with automatic trailer learning

Example 1:

<b>Too few tires are detected.</b>	
<b>Cause</b>	<b>Remedial action</b>
A lifting axle is raised during the learning phase, and this means that the learning process is not detected. For example, only 4 tires are displayed instead of the expected 6 tires.	
If any of the trailer tires are further away from the towing vehicle or are strongly shielded (e.g., a load-loader), it is possible that the tire sensors are not detected due to bad reception.	◆ Contact the specialist garage, allow the additional receiver to be suitably aligned / positioned or install a separate CPC system into the trailer

Example 2:

<b>The learning phase takes up to 30 minutes.</b>	
<b>Cause</b>	<b>Remedial action</b>
During the learning phase, another, moving vehicle was in the vicinity of a CPC system.	
Some of the tire sensors of the trailer have restricted reception. This prolongs the ATL learning phase.	◆ Contact the specialist garage, allow the additional receiver to be suitably aligned / positioned or install a separate CPC system into the trailer

# Operation

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Example 3:

<b>The values of the old trailer continue to be displayed after the trailer is decoupled or was exchanged.</b>	
<b>Cause</b>	<b>Remedial action</b>
<p>Trailer decoupled and continue the driving within the next 15 minutes. The system assumes that the trailer is still coupled and continues to display the trailer tires. After approx. 40 minutes, NO SIGNAL is displayed for all trailer tires.</p>	<p>◆ It is recommended to switch off the ignition for at least 20 seconds after decoupling a trailer.</p>
<p>Trailer was exchanged within 15 minutes. The system assumes that the previous trailer is still coupled and display the number of tires of the previous trailer. After approx. 40 minutes, the NO SIGNAL warning is displayed for all trailer tires.</p>	<p>◆ It is recommended to switch off the ignition for at least 20 seconds after exchanging a trailer.</p>

Example 4:

<b>Occasionally too many tires are learned.</b>	
<b>Cause</b>	<b>Remedial action</b>
<p>During automatic trailer detection, all signals from unknown tire sensors in the immediate vicinity recognized.</p> <p>In addition, only signals from moving vehicles are accepted that are in the immediate vicinity for approx. 8 to 10 minutes (approx. 5 to 10 m (16 to 33 ft) distance) of the truck (such as the newly coupled trailer).</p> <p>If another vehicle with tire sensors is in the immediate vicinity during the entire learning phase, it is possible that some of the tire sensors of the other vehicle are also learned.</p>	<ul style="list-style-type: none"> <li>◆ Stop the vehicle and restart the learning procedure by switching of the ignition for at least 20 seconds.</li> </ul>

Example 5:

<b>During automatic trailer detection, the same number of tires of excess tires are detected.</b>	
<b>Cause</b>	<b>Remedial action</b>
<p>For ATL, the Automatic Single Wheel Exchange (SWE) is deactivated.</p> <p>If a tire or a tire sensor of the towing vehicle was exchanged, the CPC system of the towing vehicle will not be detected. The new tire sensor is considered to be unknown and interpreted as a tire sensor on the trailer during each ATL learning procedure. The same applies accordingly if more than one tire sensor on the towing machine is exchanged without changing the configuration.</p>	<p>◆ The configuration of the CPC system of the towing machine must be updated with the new tire sensors.</p> <p>For this, the following menu items are available in the hand-held tool (HHT):</p> <ul style="list-style-type: none"> <li>- <b>Installation - New Installation</b></li> <li>or</li> <li>- <b>"Modification - Modify Installation - Modify Sensor IDs"</b></li> </ul>

	<b>NOTE</b>
	<p>► Obtain all information and handling instructions on the hand-held tool from the <i>"Hand-held tool user manual"</i>.</p>

Example 6:

In the case of automatic trailer detection with position, the tires of the trailer are always displayed without position.	
Cause	Remedial action
The system checks all tire positions of the received sensors for completeness and plausibility. If one of these criteria is not met, the system returns to the display without positions.	<ul style="list-style-type: none"> <li>◆ Re-allocation of all tire positions on the trailer.</li> </ul> <p>For this, the following menu item is available in the hand-held tool (HHT):</p> <ul style="list-style-type: none"> <li>- <b>Tire sensor - Check all Tires</b></li> </ul>

NOTE	
	<ul style="list-style-type: none"> <li>▶ Obtain all information and handling instructions on the hand-held tool from the <b>"Hand-held tool user manual"</b>.</li> </ul>

# Operation

## 7.6.4 Warning messages in the case of automatic trailer detection

Example of a high-level warning for a trailer tire:

Both displays appear alternately at intervals of 1.5 seconds.



1 of 8 trailer tires has a problem.

The position of the tire concerned is not displayed.

For the meaning of the warning symbols, see chapter **“7.5.4 Warning message overview”**.

### 7.6.5 Multiple warnings for trailer tires in the case of automatic trailer detection

Both displays appear alternately at intervals of 1.5 seconds.

Example of a 4-fold warning message:



At least 4 of 8 trailer tires have a problem.

If more than 4 trailer tires have a problem, only high-priority warnings are displayed.

For the priorities of the warning messages and the meaning of the warning symbols, see chapter **“7.5.4 Warning message overview”**.

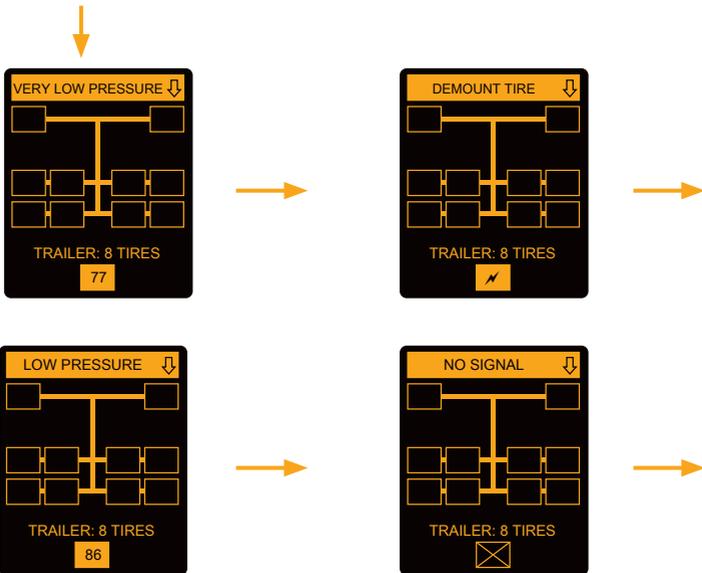
The positions of the tires concerned are not displayed.

# Operation

Press the  button to call up different warning messages.



- ◆ The number of different warning messages or the individual warning screens appear in the Info menu item. Press the  button to call up the individual warning screens.



Individual warning screens show the symbols of the individual warnings. The display of the individual screens changes every 1.5 seconds if a high-level warning occurs for the displayed tires. For the meaning of the symbols, see chapter **"7.5.4 Warning message overview"**.

### 7.6.6 Multiple warnings for truck and trailer tires in the case of automatic trailer detection

Both displays appear alternately at intervals of 1.5 seconds.



5 different warning messages for truck and trailer tires.

3 from 10 truck tires have a problem. The positions are not displayed.

At least 4 of 8 trailer tires have a problem.

If more than 4 trailer tires have a problem, only high-priority warnings are displayed.

For the priorities of the warning messages and the meaning of the warning symbols, see chapter **“7.5.4 Warning message overview”**.

The positions of the trailer tires concerned are not displayed.

- ◆ The number of different warning messages or the individual warning screens appear in the Info menu item.  
Press the  button to call up the individual warning screens.

## 7.6.7 Automatic Trailer Learning with Surrounding Observer (SO\*)

The Surrounding Observer (SO) is an additional option for Automatic Trailer Learning (ATL).

	<b>NOTE</b>
	<p>▶ The trailer monitor by means of ATL only works when the trailer is moved for at least 10 minutes at a speed of &gt;30 km/h (19 mph). Warnings can only be displayed after completion of ATL.</p>

\* SO is an optional function and is not activated in all CPC systems.

In order to be able to detect a tire with extreme low pressure at the beginning of the journey, the Surrounding Observer (SO) at the ContiPressureCheck™ system can be activated using the hand-held tool (HHT).

The surrounding observer evaluates all tire sensor signals received after the ContiPressureCheck™ system is switched on and checks whether there is extreme low pressure.

If extreme low pressure is indicated by tire sensors received, a VERY LOW PRESSURE warning is displayed for the tire. This only happens when ATL has not been completed.

The VERY LOW PRESSURE warning is based on the target pressure set for the ATL. If for example, 9.0 bar (130.5 psi) is set as target pressure for ATL, then warnings for all tire sensors are displayed that measure a pressure lower than 7.2 bar (104.4 psi).

Illustration of ATL + SO during the learning phase.

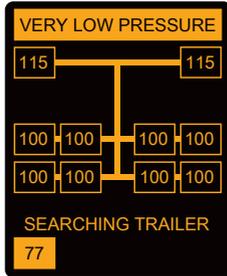
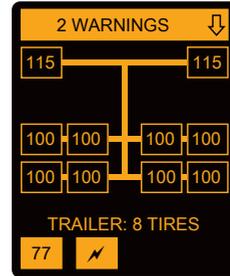


Illustration after successful learning phase.



Whether the surrounding observer (SO) was activated can be seen if an VERY LOW PRESSURE warning is displayed during the learning phase. The learning phase is indicated by SEARCHING FOR TRAILER.

- The illustration on the left shows a warning with activated surrounding observer (SO).
- The illustration on the right shows warnings from a successfully learned trailer.

When trailer learning is completed, ATL and surrounding observer (SO) end automatically.

NOTE	
<b>i</b>	<ul style="list-style-type: none"> <li>▶ The surrounding observer only displays the VERY LOW PRESSURE warning. WARNING All other warnings are only displayed when ATL is connected.</li> <li>▶ The VERY LOW PRESSURE warning from the surrounding observer may not come from the own trailer but can also come from the neighboring vehicle. However, the driver has the option in the event of a warning to check his own trailer for low pressure.</li> </ul>

## 8 Error messages

If the function of the ContiPressureCheck™ system is disturbed, the following error messages could be displayed:

Error message	Cause	Action
	ContiPressure-Check™ system is not ready.	Contact a specialist garage as soon as possible to arrange for the system to be repaired.
		
The warning (DISPLAY ERROR 1006) illustrated above is displayed only in English irrespective of the language set		
	Add. receiver: Line is open or short-circuited.	Check plug-in connector on the additional receiver and the CCU. Check cable and additional receiver.

Error message	Cause	Action
 <p>The image shows a black diagnostic tool screen with a monochrome display. The text on the screen is yellow and reads "SYSTEM NOT ACTIVE" in three lines. Below the screen are four buttons: "SET", a downward arrow, "OK", and a circular arrow icon.</p>	<p>ContiPressure-Check™ system is not ready.</p>	<p>A specialist garage must activate the ContiPressure-Check™ system.</p>
 <p>The image shows a black diagnostic tool screen with a monochrome display. The text on the screen is yellow and reads "SYSTEM NOT CONFIGURED" in three lines. Below the screen are four buttons: "SET", a downward arrow, "OK", and a circular arrow icon.</p>	<p>Installation of the ContiPressure-Check™ system was not properly carried out.</p>	<p>A specialist garage must complete the installation process.</p>

## 9 Pressure control indicator

The pressure control indicator is located in the trailer.

- During operation, make sure that the pressure control indicator is visible in the rear-view mirror. For this, the pressure control indicator lights up for 15 seconds after starting the vehicle each time.

	NOTE
	▶ At speeds exceeding 110 km/h (70 mph), the visibility of the pressure control indicator can be restricted.

### 9.1 Pressure control indicator operating states

	NOTE
	<ul style="list-style-type: none"><li>▶ To check the functional capability of the CPC system on the trailer, it is necessary to switch the CPC system on and off regularly).<ul style="list-style-type: none"><li>● If the control device installed in the trailer is <b>not</b> connected to a continuous power supply, the pressure control indicator lights up for 15 seconds during ignition.</li><li>● If the control device installed in the trailer is connected to a continuous power supply, the pressure control indicator lights up <b>only</b> when the battery main switch is pressed.</li></ul></li></ul>

#### Automatic functionality checking\*

If the trailer is not moved for more than 15 minutes or only very slowly, the pressure control indicator lights up for 15 seconds after moving off in order to signal the functionality of the CPC system in the trailer to the driver.

The pressure control indicator is visible in the left side mirror, it indicates the following operating states:

Display	operational conditions	Note
No signal	No warning messages for the trailer pending.	Failure of the pressure control indicator or the CPC system on the trailer is not displayed during the journey. The CPC system for the trailer is not ready for operation for the rest of this journey. This failure is detected during the next ignition (see next point).
Lights up for 15 seconds (when switching on the CPC system and when moving off after a longer break)	The CPC system and the pressure control indicator are ready for operation.	If the pressure control indicator does not produce a signal when switching on the CPC system (ignition or pressing the main battery switch), either the CPC system on the trailer is not ready for operation or the pressure control indicator is defective. In this case, monitoring of the tire pressure on the trailer is not possible and it is necessary to go to a service garage as quickly as possible.
Flashes slowly** (Blink Code EU: every 2.5 seconds) (Blink Code US: Permanently lit)	There is a "low" level warning on the trailer.	Check the inflation pressure of all trailer tires at the next suitable point (e.g., car park, rest area, gas station) and correct if necessary*. If slow flashing continues after driving off, go to a service garage.  Otherwise the same measures apply to low-level warning as described in the chapter " <b>7.5.5 Low-level warning messages</b> ".

# Pressure control indicator

Display	operational conditions	Note
<p>Flashes quickly**</p> <p>(Blink Code EU: 5x per second)</p> <p>(Blink Code US: every 4 seconds)</p>	<p>There is a "high" level warning on the trailer.</p>	<p>Stop the truck as quickly as possible.</p> <p>Check all trailer tires* for fast pressure loss or extreme low pressure. In this case, allow a specialist to check the tires and repair or exchange if necessary.</p> <p>If, after these measures, fast flashing begins again after continuing the journey, go to a service garage.</p> <p>Otherwise the same measures apply to high-level warning as described in the chapter <b>"7.5.6 High-level warning messages"</b>.</p>
<p>Flashes very slowly**</p> <p>(Blink Code EU: not available)</p> <p>(Blink Code US: every 2 minutes)</p>	<p>There is a system error on the trailer.</p>	<p>At the next opportunity, visit a service workshop and have the system error rectified.</p>

\* only top up the tire pressure when the tire temperature corresponds to the ambient temperature. Otherwise there is a risk that the wrong pressure is set.

\*\* The behavior depends on the configuration defined in the HHT hand-held tool..

**Power indicator of the pressure control display after parking the trailer**

<b>i</b>	NOTE
	<ul style="list-style-type: none"><li>▶ In the case of a warning (flashing), it is possible that the flashing stops if the trailer is stationary or is moved slowly for a time period of 30 minutes (&lt; 15 km/h (9 mph)).</li><li>▶ Depending on the voltage supply of the CPC trailer system, it is possible that flashing continues up to 30 minutes even after switching off the vehicle.</li></ul>

## 9.2 Readjusting the pressure control indicator

If the pressure control indicator is incorrectly adjusted and is therefore not sufficiently visible during ignition, it must be readjusted.

To adjust the pressure control indicator, proceed as follows:

- ◆ Loosen the locknut on the pressure control indicator and adjust the pressure control indicator on the side mirror.
- ◆ Subsequently tighten lock nut to 2 Nm (1.48 lb-ft) (finger-tight) so that the ball joint of the rubber arm can no longer move within the mounting.

<b>i</b>	NOTE
	<ul style="list-style-type: none"><li>▶ At temperatures under 2 °C (35,6 °F), the tightening torque should not exceed 2 Nm (1.48 lb-ft) otherwise damage could occur.</li><li>▶ Adjust the tightening torque accordingly at high temperatures.</li><li>▶ Arrange for a service garage to perform or check adjustment.</li></ul>

## 10 Cleaning the display

	<b>ATTENTION</b>
	<p>Pay attention to the following cleaning and safety instructions before cleaning the display:</p> <ul style="list-style-type: none"><li>▶ Clean the display with a dry, soft, lint-free cloth only.</li><li>▶ Even when cleaning stubborn dirt, the cleaning cloth may only be slightly dampened with a little water.</li><li>▶ Do not use aggressive or abrasive cleaning agents when cleaning stubborn dirt and never use solvents that could attack the plastic surface of the display.</li></ul>

## 11 Maintenance

- ◆ Clean the light surface of the pressure control indicator at regular intervals.
- ◆ Keep the central control unit and the additional receiver free of soiling such as snow or slush in order not to impair the reception.
- ◆ Check all screw and plug-in connections at regular intervals when using the CPC system.

## 12 Disposal

### 12.1 General instructions

Continental is committed to the protection of the environment. As with other old devices, the system can be returned to Continental via the normal channels. For details of disposal, please contact your authorized sales partner.

- ◆ Sort metals and plastics carefully for recycling or scrapping.
- ◆ Dispose of all other components such as cleaning agents or electrical components (such central control unit, additional receiver) according to legal regulations.

### 12.2 Tire sensor

	NOTE
	<ul style="list-style-type: none"><li>▶ Before disposing of a tire, the tire sensor must be taken out.</li><li>▶ If the tire sensor is to continue to be used, pay attention to the service life and operating time of the tire sensor according to the chapter "<b>3.1 Tire sensor</b>" of the installation instructions.</li></ul>

The tire sensor contains a lithium battery that is cast into the housing and cannot be replaced. After reaching the end of its service life, the tire sensor must be disposed of in accordance with all current local, regional and national laws and regulations. For this, a return to an authorized CPC sales partner or the return to the central CPC collection point is possible (address, see chapter "**12.4 CPC collection point**").

## 12.3 Electrical/electronic components



All other electrical/electronic components excepting tire sensors must be disposed off according to the EC directive 2002/96/EC-WEEE (Waste Electrical and Electronic Equipment). Should you have any questions, please contact your communal authority responsible for waste disposal.

## 12.4 CPC collection point

**Address:**

Continental Trading GmbH

"Abteilung Entsorgung"

VDO-Straße 1

Gebäude B14

64832 Babenhausen

Germany

## 13 Declaration of Conformity

The CPC system meets the basic requirements and relevant regulations of the European Union (EU) and the USA as well as other countries listed at ***[www.contipressurecheck.com](http://www.contipressurecheck.com)***.

The complete original declaration of conformity is included in the scope of delivery. (EC Declaration of Conformity Art. No. 17340510000).

It can also be found at ***[www.contipressurecheck.com/downloads](http://www.contipressurecheck.com/downloads)***.

## 14 Certifications

The individual certificates are included with the system documents. The latest version is available at:

[www.contipressurecheck.com/downloads](http://www.contipressurecheck.com/downloads).

### 14.1 Radio permit

A radio permit was issued for the CPC system in the following countries.

- **Homologation Certificate Vehicle Components**  
(Art. No. 17340480000)

### 14.2 General Operating Permit

A general operating permit (Allgemeine Betriebserlaubnis - ABE) from the Kraftfahrt-Bundesamt (KBA) (Federal Motor Vehicle Transport Authority) was issued for the CPC system.

- **GENERAL OPERATING PERMIT (GOP)**  
(Art. No. 17340280000)

### 14.3 ADR

The CPC system is principally designed for hazardous material (ADR) vehicles.

A declaration of conformity according to ADR is available for the CPC system and includes the approved hazardous goods classes.

- **ADR Declaration of Conformity for the CPC system**  
(Art. No. 17340500000)

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