

Truma CP plus



Operating instructions

To be kept in the vehicle.
This document is part of the product.

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California Proposition 65 lists chemical substances known to the state to cause cancer, birth defects, death, serious illness or other reproductive harm. This product may contain such substances.



Trademark information

Truma CP plus control panel referred to as CP plus below.

Truma Combi referred to as Combi below.

Truma Combi D referred to as Combi D below.

Truma Combi G comfort and Truma Combi G comfort plus referred to as Combi G below.

Aventa eco and Aventa comfort referred to as Aventa below.

Combi, Combi D and Combi G are furnaces. For technical reasons they are referred to as "HEATING" in the display text.

▲ WARNING

FIRE OR EXPLOSION HAZARD
Failure to follow safety warnings exactly could result in serious injury, death or property damage.

Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.


WHAT TO DO IF YOU SMELL GAS


- Evacuate all persons from the vehicle.
- Shut off the gas supply at the gas container or source.
- Do not touch any electrical switch or use any phone or radio in the vehicle.
- Do not start the vehicle's engine or electric generator.
- Contact the nearest gas supplier or certified service technician for repairs.
- If you cannot reach a gas supplier or certified service technician, contact the nearest fire department.
- Do not turn on the gas supply until gas leaks have been repaired.


Installation and service must be performed by a certified service technician, service agency, or the gas supplier.


Consumer Safety Information

Safety symbols and signal words

 This is the safety alert symbol. This symbol alerts you to potential hazards that can kill or hurt you and others.

 **DANGER** indicates a hazardous situation which, if not avoided, will result in death or serious injury.

 **WARNING** indicates a hazardous situation which, if not avoided, could result in death or serious injury.

 Other important information or tips.

Safety Behavior and Practices

WARNING

- Use the CP plus only when it is in a technically sound condition.
- Have a specialist immediately remedy any malfunctions. Remedy the malfunction yourself only if a remedy is specified in the troubleshooting chart in these operating instructions.
- Have a defective CP plus repaired only by the manufacturer or its service department.
- Any alteration to the appliance or its controls can be dangerous and will void the warranty.
- Switch OFF the Combi, Combi D or Combi G when refueling, pumping gas or when the recreational vehicle (RV) is in a parking garage, on a ferry, or in enclosed spaces (such as a garage, repair shop). Make absolutely sure that the Combi, Combi D or Combi G cannot be switched on via the time switch. To do this, you have to switch the CP plus off or interrupt the power supply to the control panel.

Intended use

The CP plus is suitable only for installation in RVs used for recreation, travel, or camping.

The CP plus controls and monitors the following appliances:

- Combi
- Combi D
- Combi G
- Aventa eco / comfort

Important notes

- If the power supply to the system has been interrupted, the time / time switch must be reset.
- If a new or replacement appliance (furnace or air conditioning system) is connected to the bus system, the procedure described in "Initial start-up" must be repeated.

Display and Operating Elements

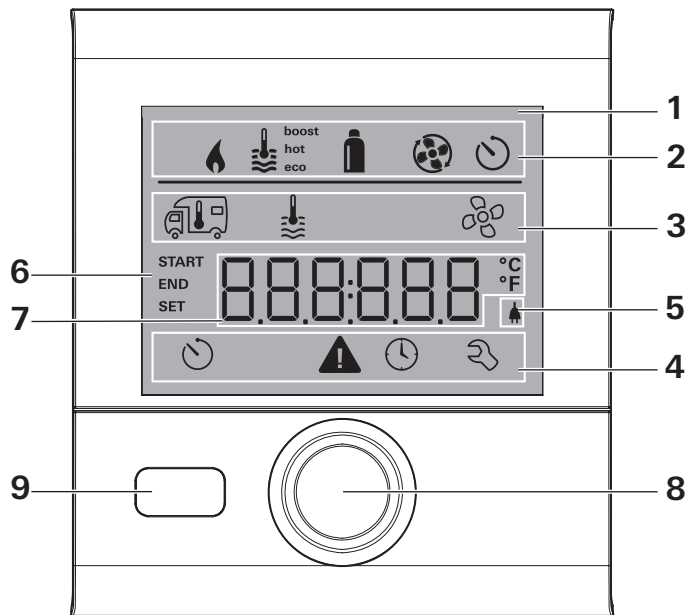


Fig. 1

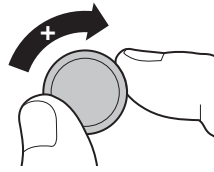
- 1 Display
- 2 Status line
- 3 Menu line (top)
- 4 Menu line (bottom)
- 5 Power supply display
120 V AC (mains supply)
- 6 Time switch display
- 7 Settings/Values (displayed text)
- 8 Rotary push button
- 9 Back button

Description

- A rotary push button (8) is used to select menu items in the menu lines (3 + 4) and to adjust settings.
- Information is shown on a backlit display (1).
- The back button (9) is used to go back to a previous menu.

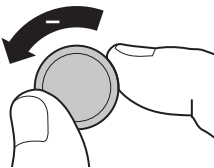
Rotary push button

The rotary push button (8) is used to select and change setpoints and parameters; it is then tapped to save the values. Selected menu items flash.



Turn clockwise

- The menu is scrolled through from left to right
- Increase values (+)



Turn counterclockwise

- The menu is scrolled through from right to left
- Reduce values (-)



Tap

- Save a selected value
- Select a menu item, go to the setting level

Press and hold

- Main switching function – control panel on/off.

Back button

Press the back button (9) to go back to a previous menu and cancel settings. This means that the previous values remain unchanged.

Initial start-up

Perform the following steps for initial start-up:

- Switch on the power supply.
 - 12 V DC for the CP plus and furnace or air conditioning system.
- Start searching for the appliances in the menu item "Service menu" → "RESET" → "PR SET".

When you have confirmed the selection, the CP plus is initialized. "INIT .." appears on the display while this is in progress. This stores the devices that have been found in the control panel.

Start-up

Start / Stand-by screen

When the CP plus is connected to the power supply, a start screen is displayed after a few seconds.

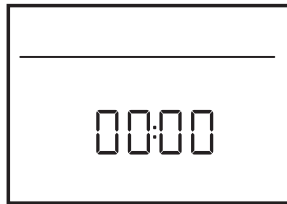


Fig. 2

- i** • The display alternates between the current time and the room temperature that you set.
- Special displays on command via CI-BUS (refer to “Special displays” on page 12).
- After repairs or upgrades, “initial start-up” has to be repeated.

Functions

The functions of menu lines (Fig. 1 – 3, 4) of the CP plus can be selected in any sequence. The operating parameters are shown in the status line (Fig. 1 – 2) or in the display (Fig. 1 – 6).

Switch on / off

Switch on

- Tap the rotary push button.

- i** Previously set values and operating parameters are active again when the panel is switched on.

Switch off

- Press the rotary push button for more than 4 seconds.
- i** The switching off process of the CP plus may take a few minutes due to internal time lags of the furnace or air conditioning system.

Select the setting level

- Tap the rotary push button.

The display shows the setting level. The first icon flashes.

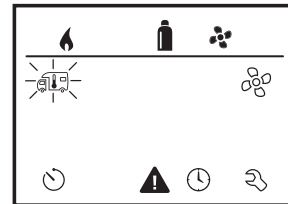


Fig. 3

Change the room temperature

- Use the rotary push button (Fig. 1 - 8) to select the icon in the menu line (Fig. 4 - 3).
- Tap the button to go to the setting level.
- Use the rotary push button to select the furnace (“HEATER”) or air conditioning system (“AC”).
- Use the rotary push button to select between “OFF”, “VENT”, “COOL”, “AUTO”.
- Push rotary push button to confirm the selection.
- Select the desired temperature with the rotary push button.
- Tap the rotary push button (8) to confirm the value.

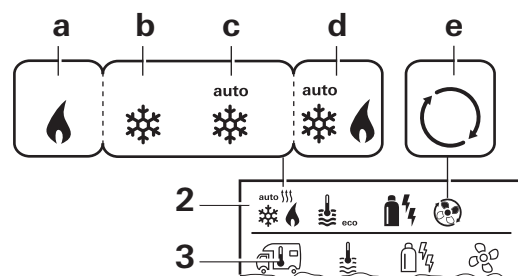


Fig. 4

Furnace (“HEATER”)

Adjustable temperature range 40 – 86 °F (1 °F increments) or 5 – 30 °C (1 °C increments)
a = furnace on – icon is lit;
the icon flashes until the room temperature is reached.

Air conditioning system ("AC")

Adjustable temperature range 60 - 88 °F (1 °F increments) or 16 - 31 °C (1 °C increments)

i Air conditioning system can also be operated with IR remote, see page 12.

Icon	Displayed text	Description
b	COOL	Air conditioning system is switched on
c	AUTO ¹	Air conditioning system is set to automatic
e	NIGHT	Air conditioning system is set to silent mode
e	VENT	Air conditioning system is in air circulation mode

¹ Symbol flashes until the desired room temperature is reached.

i Quick temperature change possible using rotary push button (in stand-by screen).

Automatic climate control ("AUTO")

Adjustable temperature range 64 - 77 °F (1 °F increments) or 18 - 25 °C (1 °C increments)

Automatic changeover between furnace and air conditioning system for an approximately constant temperature inside the vehicle.

e = AUTO – Automatic climate control is activated

Requirements for operation with automatic climate control:

- The furnace and air conditioning system must be connected.
- Automatic climate control (ACC) must be activated in the service menu (see „Service menu“ on page 9).



Change hot water mode

- Use the rotary push button to select the icon in the menu line (Fig. 5 – 3).
- Tap the rotary push button to go to the setting level.
- Select the desired hot water mode with the rotary push button.
- Tap the rotary push button to confirm the selection.
- Tap the rotary push button to confirm the value.

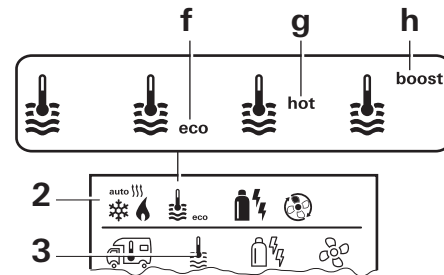


Fig. 5

Icon	Displayed text	Description
-	OFF	Hot water generator is switched off
f	ECO *	Water temperature 104 °F (40 °C)
g	HOT	Water temperature 140 °F (60 °C)
h	BOOST	Water container content is heated quickly (water container priority) for up to 40 minutes. The water temperature is then kept at the higher level (about 144 °F (62 °C)) for two subsequent heating cycles. When the water temperature is reached, the room is heated again.



This icon flashes until the desired water temperature is reached.

* The water temperature 104 °F (40 °C) can be kept in "Heating and hot water mode" for a limited time only (heating priority).



Select energy mode



The "Select energy mode" menu is displayed only if a furnace with electric heating elements is connected (Truma Combi eco plus, Truma Combi D comfort plus or Truma Combi G comfort plus).

- Select icon in menu bar (Fig. 6 – 3) with rotary push button.
- Change to the setting level by tapping on the rotary push button.
- Select desired energy source with rotary push button.
- Tap the rotary push button to confirm the value.

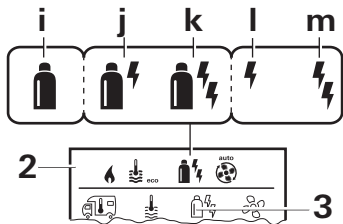


Fig. 6

Icon	Displayed text	Energy mode
i	GAS ¹ FUEL ²	LP gas Diesel / Gasoline
j	MIX 1 ³	Electricity 850 W + LP gas / Diesel / Gasoline
k	MIX 2 ³	Electricity 1700 W + LP gas / Diesel / Gasoline
l	EL 1 ³	Electricity 850 W
m	EL 2 ³	Electricity 1700 W

¹) Combi

²) Combi D / Combi G

³) Mixed mode and electricity mode

Possible only with Truma Combi eco plus, Truma Combi D comfort plus and Truma Combi G comfort plus furnaces with electric heating elements.

When the Combi is switched on (room temperature, hot water level active), the energy mode selected in the previous heating process is shown in the status line. The factory setting is GAS / FUEL.

Special features in mixed mode

- Interruption in the 120 V AC power supply:

The Combi automatically switches to GAS / FUEL mode. When the 120 V AC power supply is restored, the Combi automatically switches back to mixed mode.

- Fault in combustion process (e.g. fuel shortage):

The Combi automatically switches to electric mode. If the Combi is to run in mixed mode again, the cause of the malfunction must be remedied and the Combi has to be started again by going to the menu item "Malfunction" and pressing the rotary push button. See "Malfunction" on page 7.

Special features in electricity mode

- When the 120 V AC power supply is interrupted and the 12 V DC supply is on, an error code is displayed on the control panel.
- When the 120 V AC power supply is reconnected, the Combi will restart automatically

with the previous settings without any user interaction. The error code on the control panel will disappear.

Select fan level

- Select icon in menu bar (3) with rotary push button.
- Change to the setting level by tapping on the rotary push button.
- Select desired fan level with rotary push button.
- Tap the rotary push button to confirm the value.

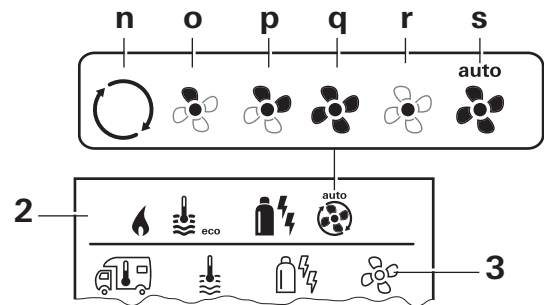


Fig. 7

Furnace ("HEATER")

Icon	Displayed text	Description
–	OFF	Fan is switched off. (only selectable if no appliance is in operation).
o	ECO	Low fan level
p	HIGH	High fan level
q	BOOST	Rapid room heating Available if the difference between the selected and actual room temperature is > 50 °F (10 °C) (depends on connected heating appliance)

i When the furnace is switched on (room temperature, hot water level selected) the status bar (2) displays the fan level that was selected during the previous heating procedure. The factory setting is "ECO".

Air conditioning system (AC)

i Air conditioning system can also be operated with IR remote, see page 12.

Icon	Displayed text	Description
–	OFF	Fan is switched off (can be selected only if no appliance is in operation).
o	LOW	Low fan level
p	MID	Medium fan level
q	HIGH	Highest fan level
r	NIGHT	Ultra-quiet fan operation for both the indoor and outdoor fans (only available in cooling mode)

Set time switch

⚠ DANGER

Risk of carbon monoxide poisoning.

The enabled time switch switches the furnace on, even when the recreational vehicle (RV) is parked. The exhaust gas from the furnace can cause poisoning in enclosed spaces (e.g. garages, repair shops).

If you park the RV in an enclosed space:

- Block the fuel supply (gas) to the furnace.
- Disable the time switch of the CP plus (“OFF”).
- Switch off the furnace on the CP plus.

i If the time switch is ON, the “Disable time switch (OFF)” menu is displayed.

- Use the rotary push button to select the icon in the menu line (Fig. 1 – 4).
- Tap the rotary push button to go to the setting level.

Enter start time

- Use the rotary push button to set the hours and then the minutes.

24 h mode

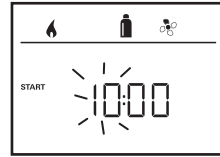
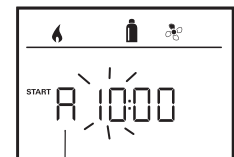


Fig. 8

12 h mode



A = a. m.
P = p. m.

Fig. 9

Enter end time

- Use the rotary push button to set the hours and then the minutes.

24 h mode

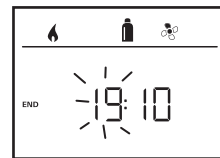
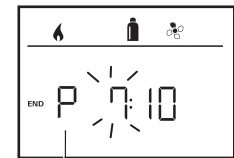


Fig. 10

12 h mode



A = a. m.
P = p. m.

Fig. 11

i If the start/end time is earlier than the time when you entered the settings, the operating parameters are not active until the next start/end time is reached. Until then, the operating parameters set outside the time switch remain valid.

Set the room temperature

i For more information „Change the room temperature“ on page 5.

- Select the desired room temperature with the rotary push button.
- Tap the rotary push button to confirm the value.

Selecting the hot water temperature

i For more information „Change hot water mode“ auf Page 6.

- Select the desired hot water mode with the rotary push button.
- Tap the rotary push button to confirm the selection.

Select energy mode

i For more information „Select energy mode“ on page 6.

- Select the desired energy mode with the rotary push button (8).
- Tap the rotary push button (8) to confirm the value.

Select fan level

i For more information „Select fan level“ auf Page 7.

- Select the desired fan level with the rotary push button.
- Tap the rotary push button to confirm the value.

Enable time switch (“ON”)

- Enable the time switch (ON) with the rotary push button
- Tap the rotary push button to confirm the value.

i The time switch remains enabled, even for several days, until it is disabled (OFF). If the time switch is programmed and enabled, the time switch icon flashes (Fig. 12 – 1).

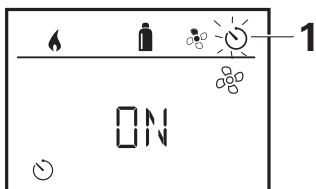


Fig. 12

Disable time switch (“OFF”)

- Tap the rotary push button to go to the setting level.
- Disable the time switch (OFF) with the rotary push button
- Tap the rotary push button to confirm the value.

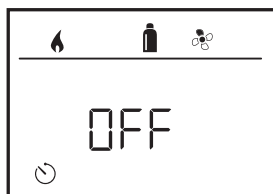
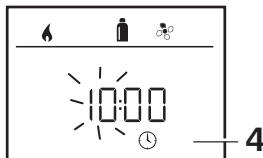


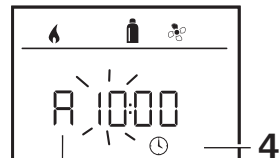
Fig. 13

Set clock

Display 24 h mode



Display 12 h mode



A = a. m.
P = p. m.

Fig. 14

Fig. 15

- Use the rotary push button (Fig. 1 – 8) to select the “Set clock” icon in the menu line (Fig. 14 & 15 – 4).

The hour display flashes.

- Use the rotary push button (Fig. 1 – 8) to set the hours.
- Tap the rotary push button again and the minute display flashes.
- Use the rotary push button to set the minutes.
- Tap the rotary push button to confirm the value.

Service menu

1. Calibrating the room temperature sensor of the Combi, Combi D or Combi G (“OFFSET”)

The room temperature sensor of the connected Combi, Combi D or Combi G can be adjusted individually to suit the location of the sensor. Settings can be made in the range from 0 °F to -10 °F (0 °C to -5 °C) in 1 °F (0.5 °C) increments.



Example:
Set room temperature 75 °F;
OFFSET = -1 °F;
Setpoint for furnace = 74 °F

Fig. 16

Default setting: 0 °F (0 °C).

2. AC SET

(Only available if ACC is set to “ON”)

The sensed room temperature can – during operation of the automatic climate control – be perceived differently during cooling than during heating. “AC SET” is used to set an offset between cooling and heating. The setting can be

made in increments of 1 °F (0.5 °C) within the range of 0 °F to 10 °F (0 °C to 5 °C).



Fig. 24

Example:
Set room temperature 74 °F;
AC SET = 2 °F
Setpoint value for air conditioning system = 76 °F

Presetting: +2 °F (+1 °C).

3. ACC

(Only available if the air conditioning system and furnace are connected)

The automatic climate control function AUTO is activated or blocked with "ACC".

- ON – The automatic climate control function AUTO is activated. Automatic climate control function AUTO can be selected in the Room temperature menu. – "AC SET" appears in the Service menu.
- OFF – The automatic climate control function AUTO is blocked.



Fig. 25

Presetting: OFF

i The function of the Truma automatic climate control depends on proper installation.

4. °C / °F temperature display

- Select temperature display °C (Celsius) or °F (Fahrenheit).

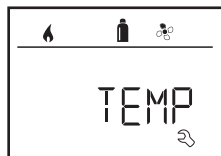


Fig. 17

Default setting: °C (Celsius).

5. Change backlighting

Change the backlighting of the CP plus in 10 increments.



Fig. 18

6. 12 h / 24 h Mode

Display in 12 h (a. m., p. m.) / 24 h mode.



Fig. 19

Default setting: 24 h mode

7. Change language

- Select the desired language (German, English, French, Italian).



Fig. 20

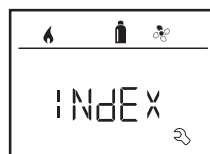
Default setting: English

8. Show the version number

Display the version number of the Combi, Combi D, Combi G and CP plus .

Example:

H 1.20.01 → H = appliance;
1.20.01 = Version number



Appliance

- C = CP plus
- F = CP plus CI-BUS
- H = Combi, Combi D, Combi G

Fig. 21

9. RESET

The reset function resets the CP plus to the factory settings. All your settings are deleted. Newly connected devices are recognized and recorded in the control panel.

Reset

- Select "RESET" with the rotary push button (Fig. 1 – 8).
- Tap the rotary push button.
- "PR SET" is shown in the display.
- Tap the rotary push button to confirm.

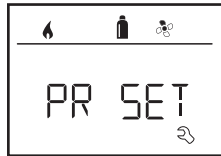


Fig. 22

When you have confirmed the selection, the CP plus is initialized.

"INIT .." appears on the display while this is in progress.


Warning / Error

Warning

If an operating parameter is outside the target range, the CP plus immediately jumps to the "Warning / Error" menu level and displays the respective error code. The cause of the warning can be determined and remedied with the aid of the troubleshooting guide (from page Page 12 and ff).

Return to setting level

- Tap the rotary push button or press the back button. If the display is in stand-by mode, tap to activate the background lighting and tap again to acknowledge the warning.

 If possible, the appliance concerned continues to operate. When the operating parameter is within the target range again, this icon extinguishes again automatically.

Display warning code

1. Select the icon (Fig. 23 – a) with the rotary push button.
2. Tap the rotary push button.
 - The code of the current warning is displayed. The troubleshooting chart (refer to "Troubleshooting" on page Page 13 and ff) can be used to determine the cause of the warning and remedy the error.

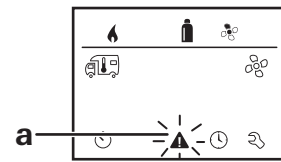


Fig. 23

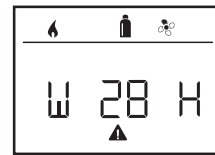


Fig. 24

W = Warning
28 = Error code
H = Combi, Combi D,
Combi G

Malfunction

In the event of an error, the CP plus immediately jumps to the "Warning / Error" menu level and displays the respective error code. The cause of the error can be determined and remedied with the aid of the troubleshooting guide (from page Page 13 and ff).

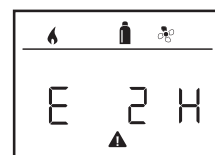



Fig. 25

E = Error
2 = Error code
H = Combi, Combi D,
Combi G


Cause remedied / return to setting level

- Tap the rotary push button.
 - The respective appliance is restarted.

 This may take a few minutes due to internal time lags of connected appliances. If the cause was not remedied, the malfunction will occur again and the control panel will again go to the "Warning / Error" menu level.

Cause not remedied / return to setting level

- Press the back button.

 In this case, the error is not acknowledged in the CP plus and the warning icon (Fig. 23 – a) remains. The appliance remains in error status. Other connected appliances can be operated.

Reading out the error code

When the error has been acknowledged, the error code can be opened again:

1. Select the warning symbol (Fig. 23 – a) with the rotary push button.

- Tap the rotary push button. The current error code is displayed.

Special displays

External control panel (CI-BUS)

If a command is sent from an external control panel with CI-BUS, "CI" is displayed.

- i** The CP plus CI-BUS is a separate variant that is fitted only in the factory.

Display power supply 120 V AC

The icon shows that the 120 V AC power supply (mains supply) is available.

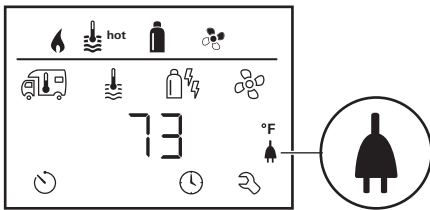


Fig. 26

- i** The icon is displayed only in combination with a Truma Combi eco plus, Truma Combi D comfort plus or Truma Combi G comfort plus.

IR remote control

Air conditioning systems – shared use of IR remote control and CP plus

- Even after connecting the CP plus, the IR remote control is still available to control the air conditioning system. The CP plus recognises all settings (except dehumidification mode) that are made on the air conditioning system using the IR remote control. The IR remote control only transmits the settings that are shown in its display (no bidirectional communication).
- Only the time switch of the CP plus may be used to clearly define the start and end time of a required period.

Maintenance

The CP plus is maintenance-free.

To clean the front, you can use a non-abrasive cloth moistened with water (and a neutral soap solution).

Technical data

Display

LCD, monochrome, with backlighting

Diagonal 3.3 in. (84 mm)

Dimensions (L x W x H)

3.62 x 4.06 x 1.58 in. (92 x 103 x 40 mm)

Operating temperature range

-13 °F to 140 °F (-25 °C to +60 °C)

Storage temperature range

-13 °F to 158 °F (-25 °C to +70 °C)

Interface

TIN bus

CI-BUS (only CI-BUS model)

Power supply

8 – 16.5 V DC

Power consumption

max. 65 mA (100% backlighting)

10 mA (stand-by)

Quiescent current

3 mA (Off)

Weight

approx. 0.22 lb (approx. 100 g)

Protection class

Class III

Protection type

IP00

Subject to change without notice.

Troubleshooting charts

Furnace Combi

Error code	Cause	Remedy
W 17 H	Hot water mode with empty water container.	Switch off Combi and allow to cool. Fill water container with water.
W 18 H	Warm-air outlet blocked.	Check the individual outlet openings.
	Circulated air intake blocked.	Remove blockage from circulated air intake.
E 21 H	Room temperature sensor/cable defective.	Contact Truma Service.
W 24 H	Imminent undervoltage, battery voltage too low < 10.4 V.	Charge battery.
E 41 H	Electronics blocked.	Contact Truma Service.
E 43 H	Excess voltage > 16.4 V.	Check battery voltage and power sources, such as battery charger.
E 44 H	Undervoltage, battery voltage too low < 10.0 V.	Charge battery. If necessary, replace old battery.
W 45 H	Only Truma Combi eco plus or Truma Combi comfort plus models.	
	No 120 V AC supply voltage.	Restore 120 V AC supply voltage.
	Overheating protection has responded.	Contact Truma Service.
E 112 H, E 202 H, E 121 H, E 211 H	Gas cylinder closed.	Check gas supply.
	Gas shut-off valve is closed – switch position = off.	Open gas shut-off valve – switch position = on.
	Overheating protection has responded.	Switch off Combi and allow to cool; if necessary, fill the water container with cold water. Check warm air outlets and circulated air intake and remove blockages. Switch Combi on again.
E 122 H, E 212 H	Combustion air infeed or exhaust gas outlet closed.	Check for obstructions such as slush, ice or leaves and remove from the openings.
	Gas shut-off valve is closed – switch position = off.	Open gas shut-off valve – switch position = on.
	Gas pressure regulation system defective.	Contact Truma Service.
	Overheating protection has responded.	Switch off Combi and allow to cool; if necessary, fill the water container with cold water. Check warm air outlets and circulated air intake and remove blockages. Switch Combi on again.
	Electronics defective.	Contact Truma Service.
W 255 H	Combi has no 12 V DC power supply.	Ensure 12 V DC power supply.
	No connection between the Combi and the control panel.	Ensure connection between Combi and control panel.
	Control panel cable defective.	Contact Truma Service.

If none of the measures in the troubleshooting chart proves successful or error codes are displayed that cannot be found in the troubleshooting chart, please contact the Truma Service Center at 1-855-558-7862 or one of our authorized service partners.

Furnace Combi D, Combi G

Error code	Cause	Remedy
E 111 H	Room temperature sensor or cable faulty	Check the cable for the room temperature sensor and plug connections
E 121 H	Interruption in the metering pump – temperature switch has triggered	<ul style="list-style-type: none"> • Remove the blockage in the circulated air intake and ensure that the installation space is sufficiently ventilated (see Combi operating instructions) • Make sure that the altitude kit is used for heating mode at altitudes above 4900ft / 1500m • Check cables, plugs and metering pump for interruptions
E 122 H	Lack of fuel due to low tank level, tank is empty and / or vehicle is on a slope	<ul style="list-style-type: none"> • Ensure 12 V power supply under load at appliance input / check for AC voltage components (disconnect power supply unit and solar system from on-board power supply) • Fill tank with fuel and then fill the fuel line (see operating instructions / initial start-up) • Make sure that the altitude kit is used for heating mode at altitudes above 1500 m • If using the altitude kit, make sure that the correct metering pump is selected
E 131 H	No connection between furnace and control panel	Connect the furnace and the control panel
E 132 H	FrostControl heating element has a short circuit	Ensure 12 V power supply under load at appliance input / check for AC voltage components (disconnect power supply unit and solar system from on-board power supply)
W 150 H	Warm air temperature exceeded	<ul style="list-style-type: none"> • Make sure that all warm air ducts are connected to the furnace • Check whether the warm air ducts are damaged or kinked • Remove the blockage in the circulated air intake and ensure that the installation space is sufficiently ventilated (see operating instructions/circulated air intake)
W 151 H	Water temperature exceeded in furnace mode	<ul style="list-style-type: none"> • Switch furnace off and allow to cool, fill water container with water • Make sure that all warm air ducts are connected to the furnace • Check whether the warm air ducts are damaged or kinked • Remove the blockage in the circulated air intake and ensure that the installation space is sufficiently ventilated (see operating instructions/circulated air intake)

Error code	Cause	Remedy
E 152 H	Water temperature exceeded in hot water mode	Switch furnace off and allow to cool, fill water container with water
W 160 H W 161 H	12 V power supply faulty (low voltage)	<ul style="list-style-type: none"> • Ensure 12 V power supply under load at appliance input / check for AC voltage components (disconnect power supply unit and solar system from on-board power supply) • Charge battery and check contacts, replace old battery • Short-term immediate action, switch off high-consumption appliances or start up vehicle engine until the furnace starts running (approx. 4 minutes)
E 162 H	Window above cowl open (window switch)	Close window above cowl
W 163 H	One of the temperature switches has opened	Allow the furnace to cool. If this occurs frequently, contact Truma Service
W 164 H	120 V AC power supply faulty	<ul style="list-style-type: none"> • Check the 120 V AC power supply at the appliance input • Reset the 120 V AC overheating protection (see operating instructions) • Have an expert check the 120 V AC T20A fuse and have it replaced if necessary / Before opening the connection cover, completely disconnect the appliance from the power supply / Replace the connection cover before restarting the appliance
W 170 H	Imminent low voltage < 11.5 V	<ul style="list-style-type: none"> • Ensure 12 V power supply under load at appliance input / check for AC voltage components (disconnect power supply unit and solar system from on-board power supply) • Charge battery and check contacts, replace old battery • Short-term immediate action, switch off high-consumption appliances or start up vehicle engine until the furnace starts running (approx. 4 minutes)
W 255 H	<ul style="list-style-type: none"> • No connection between furnace and control panel • Furnace has no 12 V power supply • Control panel cable faulty 	<ul style="list-style-type: none"> • Ensure 12 V power supply under load at appliance input / check for AC voltage components (disconnect power supply unit and solar system from on-board power supply) • Check the control panel cable and make sure there is connection between the furnace and the control panel • Have an expert check the device fuse and have it replaced if necessary / Before opening the connection cover, completely disconnect the device from the power supply / Replace the connection cover before restarting the device
W 301 H, W 417 H, E 540 H	12 V power supply faulty (overvoltage)	Ensure 12 V power supply under load at appliance input / check for AC voltage components (disconnect power supply unit and solar system from on-board power supply)

Error code	Cause	Remedy
W 302 H, W 418 H, E 541 H	12 V power supply faulty (low voltage)	<ul style="list-style-type: none"> • Ensure 12 V power supply under load at appliance input / check for AC voltage components (disconnect power supply unit and solar system from on-board power supply) • Charge battery and check contacts, replace old battery • Check function with motor running, check power supply unit or other batteries
W 303 H, W 411 H	Risk of low voltage. Battery voltage too low < 10.8 V	<ul style="list-style-type: none"> • Ensure 12 V power supply under load at appliance input / check for AC voltage components (disconnect power supply unit and solar system from on-board power supply) • Charge battery and check contacts, replace old battery • Check function with motor running, check power supply unit or other batteries
W 423 H	Initial filling required (filling function at initial start-up)	Activate initial filling by setting a heating request with temperature settings 86° F (30° C)
W 424 H	Initial filling active – after initial filling, the furnace automatically switches to normal operation with a temperature setting of 86° F (30° C)	Do not switch the furnace off or interrupt the power supply during initial filling
E 560 H	Furnace will not start. Note: The device is locked after the fifth acknowledgement of the error message.	Check the fuel supply at the appliance input
E 561 H	Cannot restart furnace. Maximum number of start attempts reached – operating lock is activated.	Contact Truma Service
E 565 H	Furnace will not start, flame repeatedly not detected. One more repeat start for initial filling possible	Check the fuel supply at the appliance input

If none of the measures in the troubleshooting chart proves successful or error codes are displayed that cannot be found in the troubleshooting chart, please contact the Truma Service Center at 1-855-558-7862 or one of our authorized service partners.

Air conditioning system Aventa, Saphir

Error code	Cause	Remedy
E 34 A, E 47 A	Unstable 120 V power supply in connection with generator or inverter operation	Ensure shore power supply 120 V AC at the unit input

If none of the measures in the troubleshooting chart proves successful or error codes are displayed that cannot be found in the troubleshooting chart, please contact the Truma Service Center at 1-855-558-7862 or one of our authorized service partners.

In case you encounter any problems,
please contact the Truma Service
Center at 855-558-7862 or one of our
authorized service partners. For details see
www.truma.net.

Please have the model number and serial
number (on type plate of appliance) handy
when you call.

Manufacturing

Truma Gerätetechnik
GmbH & Co. KG
Werner-von-Braun-Straße 12
85640 Putzbrunn
Germany
www.truma.com

Sales

Truma Corp
2800 Harman Drive
Elkhart, IN 46514
USA
Toll Free 1-855-558-7862
Fax 1-574-538-2426
service@trumacorp.com
www.truma.net