EN

Smart thermostat premium

Instruction manual for the electrical connection and for commissioning

Item no. 13501001

UM D109-2

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1. This manual...

...describes how to install, connect and operate the Smart thermostat premium.

1.1 How to use this manual

- Before you begin, please read this manual through completely and follow all the safety instructions
- Please also read the instruction manuals of the accessories (if available) as well as the instructions of the respective connected electrical appliance
- This manual is part of the product. Please store it in an easily accessible place
- When passing the Smart thermostat premium on to a third party, this manual must be passed on as well
- Damage resulting from non-compliance with these instructions and safety instructions will void the warranty. We assume no liability for any consequential damage.

2. Hazard symbols

The following hazard symbols are used in this instruction manual:

Danger of fatal electric shock

Danger area / dangerous situation

2.1 Levels of danger and signal words

DANGER!

This hazard will lead to serious injury or death if not avoided.

WARNING!

This hazard may result in serious injury or death if not avoided.

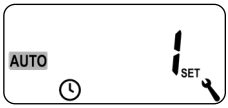
CAUTION!

This hazard may result in minor or moderate injury if not avoided.

ATTENTION!

This hazard may lead to property damage.

2.2 Symbols and depictions used

Depiction	Description
1.	Procedures
2.	
◆	Itemisation
1) or a)	Lists
	Further useful information
	Please read the respective manual
	Flashing menu symbols and setting parameters have a grey background. Information about opening the menus and setting the parameters can be found on page 47.

The use of defective equipment can lead to personal injury and damage to property (electric shocks / short circuiting).

- Never use defective or damaged equipment.
- Check that the Smart thermostat premium is intact.
- Consult our customer service department in the event that you discover damage.

Improper use leads to an increased risk of injury.

- Train all personnel to use the Smart thermostat premium safely.
- Children must not play with the device.
- Never remove the operating unit from the installation housing during operation.

Risk of damage due to the overheating or excessive cooling of the room or flooring.

The relay output remains unchanged if the operating unit is pulled out of the installation housing during operation. Control and limiting functions where appropriate are no longer provided.

- Make sure that a relay state that poses no risk is set before removing the operating unit.
- Switch off the central heating or air conditioning beforehand if necessary.

3.1 Intended use

Use the Smart thermostat premium solely to control radiators / floor heating or the air conditioning within the permissible load limits, see page 34, Technical specifications.

The Smart thermostat premium is suitable for switching the mains voltage and extra-low voltage (ELV) with basic insulation.

Only use original spare parts and accessories from HOMEPILOT

- By doing so, you avoid the risk of malfunctions and damage to the Smart thermostat premium
- As the manufacturer, we provide no warranty for the use of third-party components and accept no liability for consequential damage resulting from such

Operating conditions

- Only use the Smart thermostat premium in dry rooms
- A 230 V/50 Hz power supply, together with a site-provided disconnecting device (fuse), must be available at the installation location
- The installation and operation of the radio systems is only permitted for those systems and devices where a malfunction in the transmitter or receiver would not cause a danger to personnel or property or where this risk is already covered by other safety equipment

Radio systems that transmit on the same frequency can cause interference.

3.2 Improper use

Using the Smart thermostat premium for any other purpose than previously mentioned is not permissible.

Improper use can lead to serious injuries or property damage.

- Do not use the Smart thermostat premium to disconnect the connected electrical appliance.
- Never use the radio system and its components for the remote control of devices and systems with increased safety-relevant requirements or where there is an increased risk of accidents. Such applications require additional safety equipment. Observe the respective statutory regulations for the installation of such systems.

There is a risk of fatal injury caused by short circuiting and electric shocks if the Smart thermostat premium is used outdoors or in damp rooms.

- Do not install and use the Smart thermostat premium outdoors or in damp rooms.

3.3 Required expert knowledge of the installer

The electrical connection, installation and commissioning of the Smart thermostat premium must be carried out by a qualified electrician with basic heating control knowledge in accordance with the instructions in this manual.

UW

- UW = ultra-white (device colour)

DIN 49075

- German Standard "Cover panels for installation devices for building into device boxes..."

2014/53/EU

- European Radio Equipment Directive

ELV

- Extra low voltage

Electrothermal control valves

Electrothermal valves with the switching states "**normally closed (NC) or normally open (NO)**" are often used for heating control.

You can set the respective valve mode on the Smart thermostat premium to adapt to the control valve used in each case.

Valve mode NC (normally closed)

- The control valve remains closed in an isolated, de-energised state

Valve mode NO (normally open)

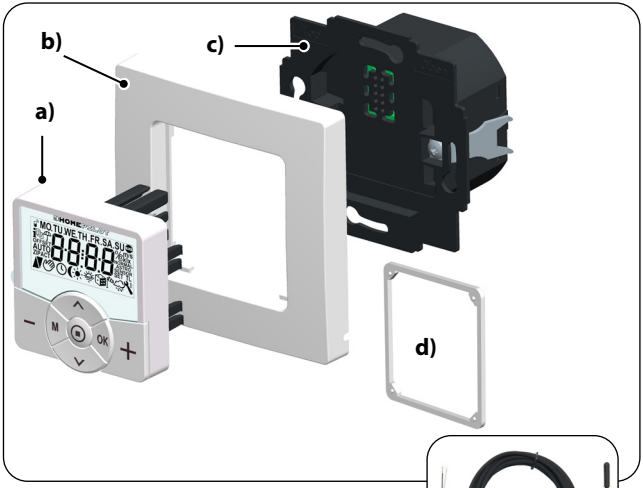
- The control valve remains open in an isolated, de-energised state

Hysteresis / minimum on-time

- This function prevents an unnecessary large number of switching operations by setting a minimum on-time
- This prevents the Smart thermostat premium tripping too often if the room temperatures fluctuate

Offset (sensor offset)

- The temperature measured on site can vary slightly from the room temperature if the Smart thermostat premium is installed in a unfavourable position (e.g. behind a curtain or on a cool exterior wall)
- An adjustment of the measurement in the range of - 5.0°C to + 5.0 °C can be carried out using the sensor offset



Included in delivery

a) 1 x Operating unit (50 x 50 mm)
b) 1 x Frame
c) 1 x Installation housing
d) 1 x Spacer frame, see page 46
e) 1 x Instruction manual (not illustrated)

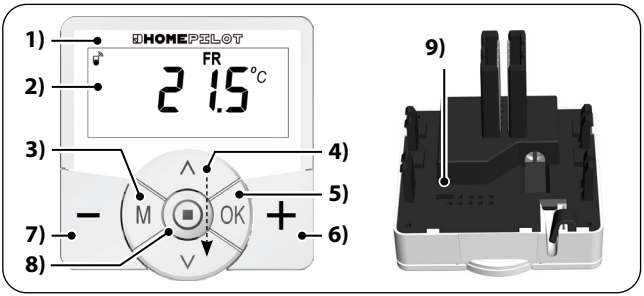
After unpacking please check and compare...

... the contents of the package with those specified above.

***) Accessories optionally available, see page 121**

Temperature sensor

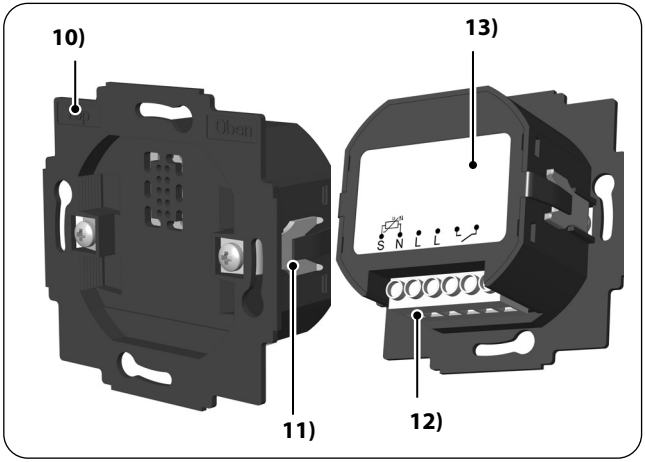
5. General view of the operating unit



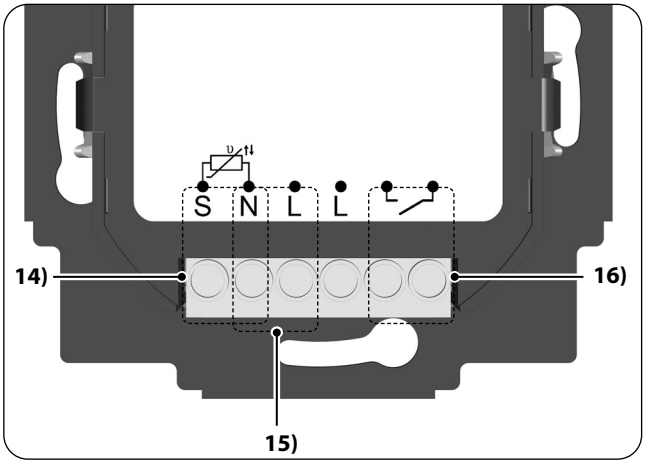
Pos.	Symbol	Description
1)		**Operating unit**
2)		**Display**
3)	M	**Menu button** ◆ *Open the main menu* ◆ *Back to the previous menu or standard display*
4)	∧ ∨	**Setting buttons** ◆ *Select a menu in the main menu* ◆ *Set the parameters (more / less)* ● *Short press or press and hold = gradual or quick setting* ◆ *Switch functions on / off (On / OFF)* ◆ *Select the display (target (SET) / actual (IST) temperature / time)*

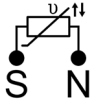
Pos.	Symbol	Description
5)	OK	**OK button** ◆ *Open the selected menu* ◆ *Confirm and save settings* ◆ *Continue to the next setting*
6)	+	**Plus button - HOTTER** ◆ *Gradually increase the target temperature by 0.5 °C*
7)	-	**Minus button - COLDER** ◆ *Gradually reduce the target temperature by 0.5 °C*
8)	◉	**SET button** ◆ *Switch the button lock on/off (only when the button lock function is activated)* ◆ *Display weather information*
9)		**Bridging contact for a hardware reset** ◆ *See page 116*

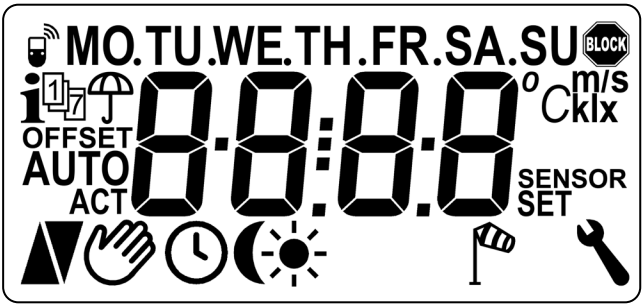
5.1 General view of the installation housing



Pos.	Symbol	Description
10)		Installation housing
11)		Claw fasteners and screws
12)		Connecting terminals
13)		Type plate



Pos.	Symbol	Description
14)		**Temperature sensor [S / N] - optional** *Connect the external Temperature sensor to measure the room temperature.*
15)		**Supply voltage [N / L] - 230 V / 50 Hz ~** *Connect the supply voltage.*
16)		**Relay output - potential-free** *Connect an electrothermal control valve (also with extra-low voltage) / electric heater or the air conditioning.*



Pos.	Symbol	Description
17)	**MO... SU**	Weekdays (Monday...Sunday)
18)	88:88	Time / setting parameters
19)		DuoFern status
20)		Weather information
21)		Week programme
22)		Rain display
23)	**OFFSET**	Sensor offset
24)	**AUTO**	Automatic mode
25)		Automatic mode off or manually changed target temperature
26)		Heating

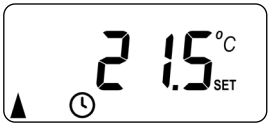
5.3 Display and its symbols

Pos.	Symbol	Description
27)		Cooling
28)		Switching times for the heating phases
29)		Brightness display
30)		Dusk display
31)		Wind display
32)		System settings
33)	**SET**	Target temperature
34)	**SENSOR**	Sensor test
35)	**klx / lx**	Light intensity (klx = Kilolux / lx = Lux)
36)	**° C**	Temperature unit in degrees Celsius
37)	**m / s**	Wind velocity (meters per second)
38)		Automatic button lock

The Smart thermostat premium has adjustable LCD backlighting, see page 95, menu 9.8.3.

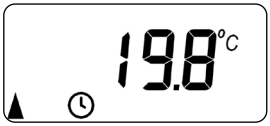
[∧] / [∨] You can select the desired view of the standard display using the set buttons.

Target temperature



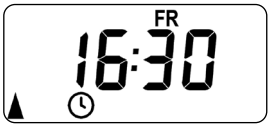
Symbols	Description
21.5 °C SET	The set target temperature

Actual temperature



Symbols	Description
19.8 °C	The current room temperature

Time



Symbols	Description
FR	The current weekday
16:30	The current time

Other symbols can be displayed depending on the setting of the Smart thermostat premium.

Examples:

Symbols	Description
	Automatic mode is active. Heating or cooling is provided at the set switching times until the room temperature reaches the target value.
	The target temperature has been manually changed.
	Heating is provided as the current room temperature is lower than the target temperature.
	Cooling is provided as the current room temperature is higher than the target temperature.
	The current weather information from a Smart weather sensor is available.
	Wind or rain display
	Brightness or dusk display

6. Product description

The Smart thermostat premium automatically measures and controls the room temperature in individual rooms, e.g. by controlling a radiator, the floor heating or air conditioning. The temperature is either measured by the built-in sensor or by the optional external Temperature sensor. The room thermostat has a potential-free relay output.

Support for three heating modes

The Smart thermostat premium can be used and configured in three different heating modes, see page 82:

- Room temperature controller
- Room temperature controller with limiter function
- Cooling function

Furthermore, the Smart thermostat premium can be combined with the Smart radiator valve (item no. 13601001) to control it.

Setting multiple heating phases

Up to six heating or cooling phases (incl. four target temperatures) can be set for each day.

Setting heating phases centrally in the Premium gateway or locally in the Smart thermostat premium

The desired use is carried out by selecting the corresponding DuoFern mode in menu 9.9.2, see page 108.

Potential-free relay output

The following electrical appliances, for example, can be connected to the potential-free relay output:

- Control valves (also extra-low voltage valves)
- Heaters (also electrical heaters up to max. 2300 W)
- Air conditioning

Connecting an external temperature sensor (optional)

The Temperature sensor is optionally available as an external temperature sensor if the internal sensor cannot reliably record the room temperature. This may be useful if:

- The Smart thermostat premium is installed in a thermally unfavourable position (e.g. on a cool exterior wall)
- Heavy loads (e.g. an electric heater) are switched on that significantly heat up the Smart thermostat premium (self-heating)

When is it absolutely essential to use the external Temperature sensor?

- If you are using the Smart thermostat premium as a temperature limiter (e.g. for floor heating with special floor coverings).

Two valve modes (NC/NO) to adapt to the control valve used

Electrothermal valves with the switching states "**normally closed (NC)**" or "**normally open (NO)**" are often used for heating control.

You can set the respective valve mode in menu 9.7.6 to adapt to the control valve used in each case, see page 90.

Manual mode

The device is manually operated with the plus and minus button.

These buttons can be used to gradually increase or decrease the target temperature by 0.5 °C, see page 53.

Installation and electrical connection

The Smart thermostat premium is designed as a flush-mounted device for indoor rooms. The electrical connection is carried out by means of the connecting terminals on the reverse side of the installation housing.

Compatible switch ranges

The Smart thermostat premium can be integrated into standard switch range (50 x 50 mm).

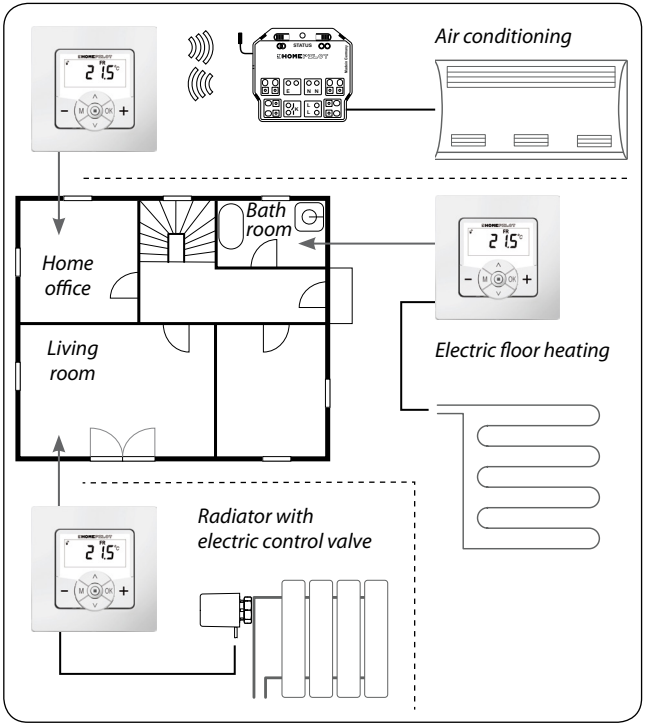
It may be necessary to use an intermediate frame * 50 x 50 (according to DIN 49075) depending on the switch range used.

** Not included*

- For use as a local control on site or as a system solution (Premium gateway / DuoFern radio system)
- Manual operation on site with the plus and minus buttons
- AUTO / MANUAL switchover
- Easy set-up thanks to the installation wizard
- Heating and cooling function depending on the connected device
- Configurable for up to 6 switching times per day and any 4 target temperatures
- Optional external temperature sensor (Temperature sensor) can be used for external temperature measurement or as a temperature limiter
- Control of the valve / radiator or air conditioning in combination with a HOMEPILOT Smart light receiver also by radio (ideal for retrofitting)
- Combination with Smart radiator valve (item no. 13601001) possible.
- Two-step control (on/off) with configurable hysteresis and adjustable minimum switching time
- Target temperature can also be manually changed by the manual transmitter
- Receipt and display of weather data (temperature, brightness, wind velocity and rain) in combination with a Smart weather sensor
- Three different week programmes
- Automatic button lock
- Dimming of the LCD backlighting
- Sensor test
- Delete or reset all data

Sample application 1

Smart thermostat premium for individual room regulation of radiators, floor heating or the air conditioning.



Home office

Control the air conditioning by radio using a Smart light receiver (e.g. for retrofitting without cabling between the Smart thermostat premium and the air conditioning).

Bathroom

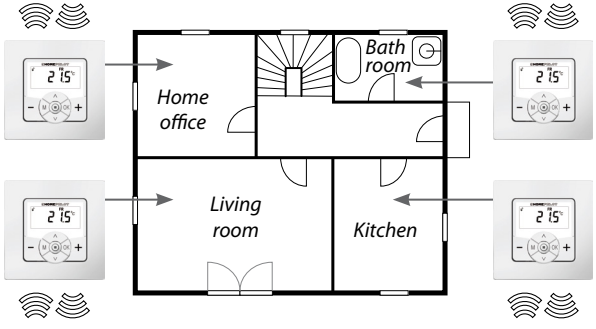
Directly connect and control electric floor heating.

Living room

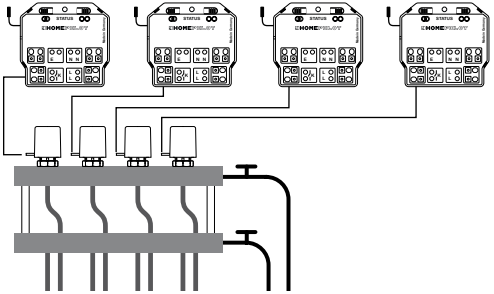
Directly connect an electrothermal control valve to control a radiator.

Sample application 2

Several Smart thermostat premium for individual room regulation of floor heating using HOMEPILOT Smart light receivers.



An individual Smart light receiver for each room in the cellar, which regulates the control valves.



6.2 Functions and sample applications

A Smart light receiver 1-channel per room in the cellar:

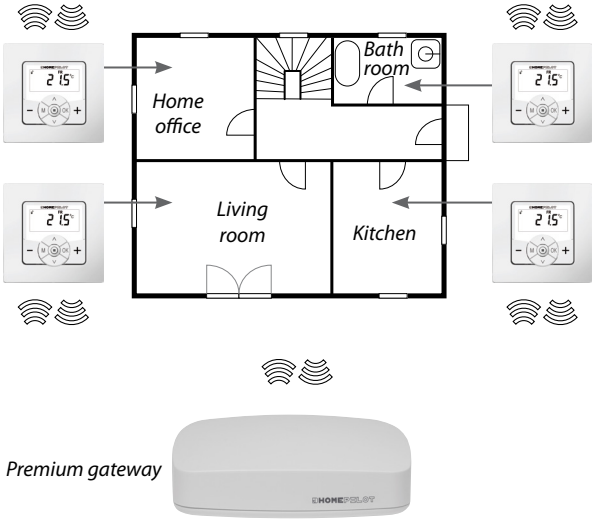
- This receives the switching commands directly from the respective Smart thermostat premium, thus regulating the control valves (e.g. for retrofitting if no leads to the heating manifold are present.)
- The parallel connection of several control valves from one room to a Smart light receiver 1-channel each is possible

There is a risk of an unintentional or erroneous influence through automated routines or manual operation.

- A HOMEPILOT Smart light receiver logged on to the Smart thermostat premium must not be logged on to the Premium gateway or to other DuoFern controllers (e.g. Smart remote control 6 groups).

Sample application 3

Central control through the Premium gateway



The Smart thermostat premium can be connected to the Premium gateway. This means that the following functions can be used:

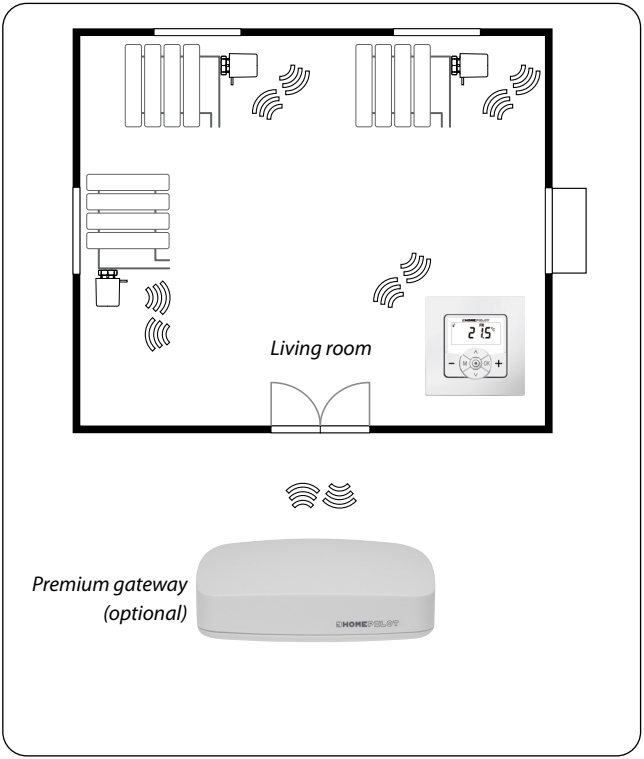
- The target temperature and display of the current state (actual temperature, target temperature etc.) can be changed manually with smartphone apps
- Routines can be triggered in the Premium gateway if the temperature drops below or exceeds the four saved target temperature values
- The Smart thermostat premium must be operated in mode 1 (DuoFern receiver) to control the heating phases through routines in the Premium gateway

Direct access from the Premium gateway to the relay switching state is not possible.

- The switching of the relay is always dependent on the target and actual temperature.

Sample application 4

Smart thermostat premium for group control of Smart radiator valve



6.2 Functions and sample applications

Self-sufficient systen

- Control of up to 20 Smart radiator valve.
- Central control: the target temperature is sent from the Smart thermostat premium to all Smart radiator valve.

Control via Premium gateway

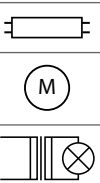
- Only the Smart thermostat premium is registered on Premium gateway.
- Commands are transmitted centrally from the Smart thermostat premium to the Smart radiator valve.

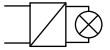
Optionally, the measured actual temperature of the Smart thermostat premium can be used as the controlled variable for the Smart radiator valve.

Use therefore the menu item "**SEn**" of the Smart radiator valve.

Mains supply [L / N]	
Mains supply voltage:	230 V / 50 Hz ~
Consumption:	Standby: < 0.4 W

Sensor input [S / N] - e.g. to connect the Temperature sensor	
Requirement:	double insulated
R25:	10 kΩ
B:	3977

Relay output - load contact for 230 V [**]**		
Switching voltage:	230 V / 50 Hz ~	
Maximum switching capacity:	ohmic load	
		10 A µ / 2300 W
	inductive loads:	
		5 A µ / 1115 VA

Relay output - load contact for 230 V [ ]	
Maximum switching capacity:	capacitive loads
	 5 A µ / 1115 VA

Improper use can lead to serious injuries or property damage.

- Due to the small contact distance (µ), not suitable for disconnecting.
- Do not use the Smart thermostat premium to disconnect the connected electrical appliance.

DuoFern radio technology	
Transmission frequency:	434.5 MHz
Transmission power:	max. 10 mW
Range:	in buildings: approx. 30 m * outdoors: approx. 100 m * *depending on the building structure*
Max. number of DuoFern devices:	20

7. Technical specifications

General information	
External dimensions (W x H x D) Operating unit [**1**]:	50 x 50 x 12 mm according to DIN 49075
Available colours:	ultra-white (UW), glossy
Installation depth:	32 mm
Permissible ambient temperature range:	0 °C to + 40 °C
Protection class:	II
Protection type:	IP 30 *(only for use in dry rooms)*
Connecting terminals:	Screw terminals for max. 1.5 mm^2 cable cross-section
Power reserve for clock in the event of a power failure	approx. 8 hours

Factory settings	
Automatic mode:	off
Automatic time:	off
Hot (21.5 °C) from:	06:00
Cold (17.0 °C) from:	23:00
Target temp. 1 and 3:	21.5 °C
Target temp. 2 and 4:	17.0 °C
Weekly programme:	off
Automatic summer/winter changeover:	on
Standard display:	target temperature
Heating mode:	1 (room temperature controller)
Hysteresis:	0.2 °C
Min. on-time / off-time:	2 minutes
Valve protection:	off
Frost protection:	on; 4.0°C
Valve mode:	NC (energised heating)
Quick changeover to temperature value:	
- with [+] (hot):	off
- with [-] (cold):	off
DuoFern transmission channel:	channel 1

Power reserve (approx. 8 hours)

The current time flashes for approx. 5 minutes in the event of a power failure and the Smart radiator valve changes to power reserve.

Time and date after a power failure

The power reserve is approx. 8 hours. If this time is exceeded, the time and date are lost and need to be reset, see page 78.

The internal timer works with tolerances in power reserve mode. It may therefore be necessary to adjust the time after a longer power failure.

Data retention following a power failure

All settings remain permanently saved. Data is not lost even after a longer power failure.

8. Safety instructions for the electrical connection

Prior to the electrical connection, check that the voltage / frequency on the type plate corresponds to that of the local mains supply.

Read the specifications relating to the electrical connection detailed in the instruction manual of the electrical appliance used.

⚠ DANGER!

There is a risk of fatal electric shock when touching electrical components.

- All connection and installation work must only be carried out in a de-energised state.
- Disconnect all phases of the mains power cable and secure it to prevent any reconnection.
- Check that the system is de-energised.

⚠ WARNING!

There is a risk of fatal injury caused by short circuiting when the Smart thermostat premium is overloaded.

The maximum switching capacity must not be exceeded, for this, please observe the details in the technical specifications, see page 34.

⚠ WARNING!

Using an incorrect installation housing can lead to personal injury and damage to property (electric shocks / short circuiting).

- Only use the installation housing provided to connect and install the Smart thermostat premium.
- Installation housings of other HOMEPILOT products are not compatible.

⚠ WARNING!

Incorrect wiring may lead to short circuits and destroy the device.

Follow the pin assignment detailed in the connection diagram.

8.1 Important information prior to the electrical connection and installation

EN

Potential-free relay output

The relay is potential-free. Control valves and controllers that require a different supply voltage can also be connected (e.g. 24 V). One side of the relay contact should be set to the respective control voltage (e.g. +24 V) instead of [**L**] in this case, see page 45.

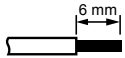
Only switch extra-low voltage with basic insulation

Only extra-low voltages (ELV) with basic insulation may be connected and switched.

Installation materials

The Smart thermostat premium is intended for flush mounting. We recommend installation in a deep 58 mm flush-mounted box or in an electronic socket.

Length of insulation stripped:



All leads must be stripped to 6 mm.

8.1 Important information prior to the electrical connection and installation

EN

Optional connection of the external Temperature sensor

The external Temperature sensor can optionally be connected for temperature measurement if the Smart thermostat premium is installed in a thermally unfavourable position.

Absolutely essential use of the external Temperature sensor

It is absolutely essential that the Temperature sensor is connected when using limiting functions (heating mode 2 = room temperature controller with limiter).

Maximum length of lead to connect the external Temperature sensor

The maximum length of lead to connect the external Temperature sensor must not exceed 10 m.

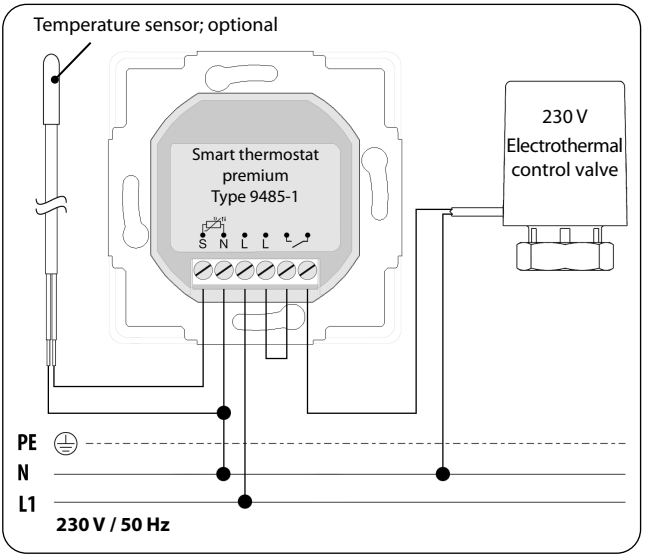
8.2 Electrical connection

1. Ensure the mains is disconnected and check whether the mains power cables are current-free.

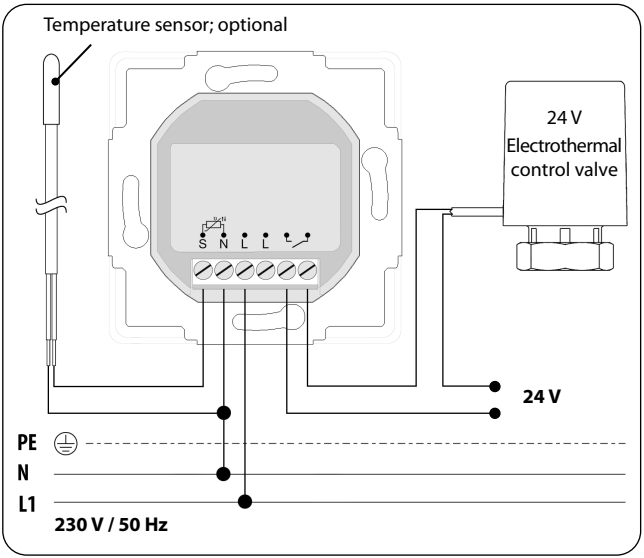
2. Securely lay all connecting cables right into the flush-mounted box.

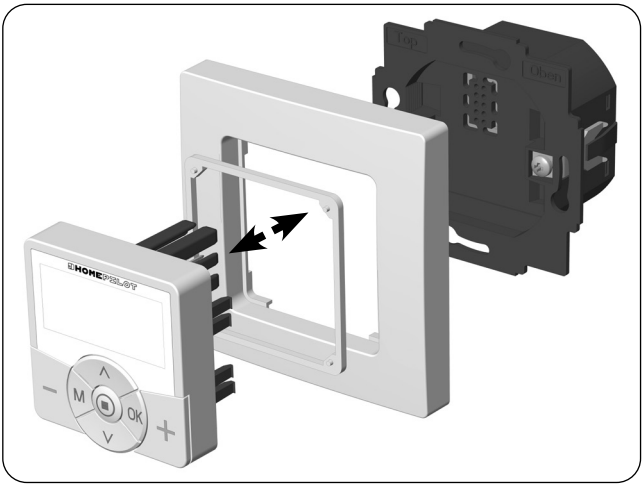
3. Remove the insulation on all leads down to 6 mm in length and connect them according to the connection diagram on the following pages.

4. After the electrical connection, the installation of the Smart thermostat premium into the flush-mounted box is carried out, see page 46.


Temperature sensor; optional
Smart thermostat
premium
Type 9485-1
S N L L
230 V
Electrothermal
control valve
PE
N
L1
230 V / 50 Hz

8.4 Connection diagram with a 24 V control valve





1. Insert the installation housing into the flush-mounted box and fasten it with the screws of the claw fasteners.
2. Place the frame on to the installation housing.
3. Place the spacer frame in the frame.
4. Then carefully insert the operating unit into the installation housing .
5. Switch on the mains power supply again.

10. Introduction to opening the menus and setting the functions

EN

1. [M] Open the main menu.

Pressing the menu button in the standard display opens the main menu.

2. [∧] / [∨] Select the desired menu.

The selected menu is indicated by a flashing symbol.

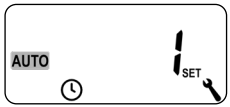
3. [OK] Confirm and open the selected menu.

OFF flashes.

10. Introduction to opening the menus and setting the functions

4. [∧] / [∨] Select the desired setting (e.g. On).

5. [OK] Each setting must be confirmed with the OK button.



Confirming the entry takes you to the next setting or back to the menu.

6. [M] Back to the standard display.

Example

Pressing the menu button briefly takes you back one menu step. Pressing and holding the button always take you to the standard display.

11. Initial commissioning with the help of the installation wizard

The installation wizard, which guides you through the first basic settings, is automatically started for the initial commissioning or after a software reset.

Continue with menu 9.7 "Installer settings"

The settings in menu 9.7 must be checked and adapted to the existing heating installation after completing the installation wizard, see page 81.

Readiness for operation
The Smart thermostat premium is ready for operation after completing the settings mentioned above.

11. Initial commissioning with the help of the installation wizard

EN

1. The installation wizard is shown after switching on the mains voltage. The digits start flashing.

2.

Set and confirm the current time.

3.

Set the current date (day. month), and confirm each setting.

4.

Set and confirm the current year.

5.

Set and confirm the starting time of the first heating phase.

Factory setting = 06:00

Maximum number of daily heating phases

A maximum of six heating phases can be set up for each day, see page 60, menu 2.

Pre-setting the week programme

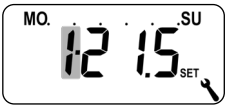
The first starting time applies to the entire week **(MO...SU)**.

If necessary, you can then select one of three week programmes in menu 9.5, see page 79.

Assigning different target temperatures

Each heating phase can be assigned an individual target temperature. You can set four target temperatures and assign any number of heating phases, see page 60, menu 2.

6.



Select and confirm the number of the desired target temperature for this heating phase.

7.

Set and confirm the desired target temperature.

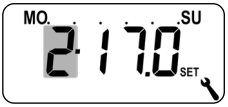
Factory setting = 1·21.5 °C

8.

Set and confirm the starting time of the second heating phase.

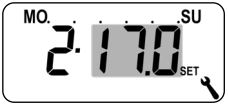
Factory setting = 23:00

9.



Select and confirm the number of the desired target temperature for this heating phase.

10.

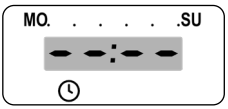


Set and confirm the desired target temperature.

Factory setting = 2·17.0 °C

11. Initial commissioning with the help of the installation wizard

11.

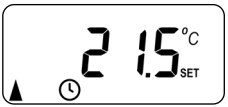


Set the starting time of the next heating phase (see points 8 to 10.).

or

Exit the settings in the installation wizard by selecting and confirming --:--.

12.



The standard display is shown after the final setting.

Example

13. The settings in menu 9.7 must be checked and adapted to the local heating installation after completing the installation wizard, see page 81.

12. Manually changing the target temperature

EN

If necessary you can manually change the target temperatures of the automatic heating phases temporarily. The change is made on the standard display.

➤ **[+] (Hotter)** Gradually increase the target temperature by 0.5 °C.

➤ **[-] (Colder)** Gradually reduce the target temperature by 0.5 °C.

Display example:

The target temperature has been manually changed.

The manual change only applies until the next automatic heating phase becomes active at the set switching time.

Resetting the manual change

[OK] 1 sec. Press the OK button on the standard display for one second to reset the manual change.

The automatic mode with its set heating phases and target temperatures then applies again.

13. Switching automatic mode on/off directly on the standard display

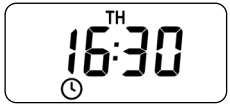
Automatic mode on

- All previously set automatic functions are active.
- Manual operation is also possible in automatic mode.

Automatic mode off

- In combination with the Premium gateway, the settings made here have no function.
- Please note: The settings made here have no function in combination with the Premium gateway.

1. OK 1 sec. Press the OK button for one second on the standard display.



Automatic mode on

Automatic mode off

If the target temperature was previously changed, you have only reset the manual change of the target temperature in the first step.

- Press the OK button again in this case to switch off automatic mode.

14. Calling up and displaying weather data

The Smart thermostat premium can receive and display weather data (temperature, brightness, wind velocity and rain) from a Smart weather sensor. It is not necessary to log the Smart weather sensor on to the Smart thermostat premium.

Weather sensors update the weather data approx. every 5 minutes and therefore it can take a few minutes until the weather data is displayed.

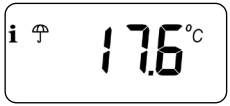
- If no new weather data is received for 45 minutes, this is no longer available.

In the event that multiple Smart weather sensors are being received, the desired weather sensor can be selected in menu 9.9.4, see page 111.

1. As soon as an weather sensor is detected, the corresponding symbol is shown on the display.

2. [SET] Pressing the SET button briefly displays the first weather data.

3. [∧] / [∨] You can call up all the available weather data using the set buttons, see examples.



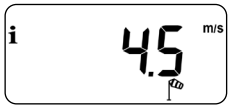
Temperature and rain

Brightness
0 - 999 Lux = lx
1 - 150 kilo lux = klx

Symbol depending on the brightness:

< 50 lx = ☾ (dusk)

> 50 lx = ☀



Wind velocity
0 - 35 m/s

Exiting the weather data display

4. [⊙] Pressing the SET button briefly exits the weather data display.

The display automatically switches to the standard display after 10 seconds.

Main menu

Symbol	Menu		Page
AUTO	1	Automatic mode	59
	2	Switching times / automatic heating phases	60
SET	3	Target temperatures / numbers	75
	9	System settings	77
SET	9.1	Time and date	78
	9.5	Week programme	79
	9.7	Installer settings	81
	9.7.1	Heating mode	82
OFFSET	9.7.2	Sensor offset	86
H	9.7.3	Hysteresis and minimum on-time	87
	9.7.4	Valve protection	88
	9.7.5	Frost protection	89
	9.7.6	Valve mode	90
SENSOR	9.7.7	Sensor test	92

	9.8	Device settings	93
	9.8.1	Automatic summer / winter changeover	94
	9.8.3	Display lighting	95
	9.8.5	Button lock	96
▼	9.8.6	Holiday mode	98
▲	9.8.7	Party mode	100
	9.8.0	Software version	102
	9.9	DuoFern settings	103
	9.9.1	Logging on and off	104
	9.9.2	Setting the DuoFern mode	108
Ch	9.9.3	Setting the transmission channel	110
i ☂	9.9.4	Switching the weather data on/off	111
i ACT	9.9.5	Displaying the DuoFern address (radio code)	113

Standardised menu structure
A standardised, cross-product menu structure has been developed for all HOMEPILOT devices. Similar functions always have the same menu number and therefore there may be gaps in the numbering.

15.1 Menu 1 - Switching automatic mode on/off

Automatic mode on (symbol on the standard display)

- All set automatic functions are active
- Manual operation is also possible in automatic mode

Automatic mode off (symbol on the standard display)

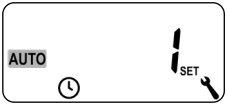
- All automatic functions are deactivated

Both symbols on the standard display

- Automatic mode on and the target temperature has been manually changed - the change applies to the next heating phase

Switching automatic mode on/off in menu 1

1.



Open menu **1**.

2.

Select and confirm the desired setting.

OFF = Automatic mode off

On = Automatic mode on

Toggling directly on the standard display

OK 1 sec. Press the OK button for one second on the standard display.

You can set automatic heating phases for each day with the desired switching time and target temperature.

Maximum number of daily heating phases

A maximum of six heating phases can be set up for each day.

Pre-setting the week programme

First select the desired week programme in menu 9.5, see page 79.

Additional information about the setting:

- The switching times of the heating phases are set in 15 minute steps (e.g. 06:00, 06:15, 06:30 etc.)
- A new heating phase cannot be set before the previous heating phase
- Four adjustable target temperatures are stored. These can be randomly assigned to the individual heating phases
- If the setting of a heating phase sequence should be terminated, select and confirm the next switching time with: ▬ ▬:▬ ▬
- ⊙ The setting of the heating phases can also be terminated by pressing and holding the SET button

We show you three examples below for the setting of automatic heating phases:

Example 1 **Family programme**

The automatic heating phases should apply for the entire week (Mon - Sun) **[MO - SU]**.

Example 2 **Single household**

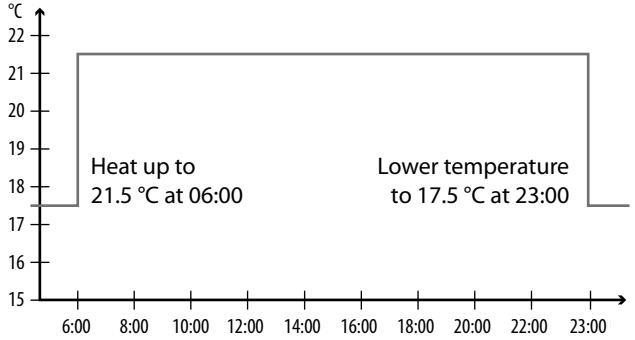
The automatic heating phases should be set separately for the weekdays (Mon - Fri) **[MO - FR]** and the weekend (Sat - Sun) **[SA -SU]**.

Example 3 **Home office**

Heating should only be provided on Friday and Saturday.

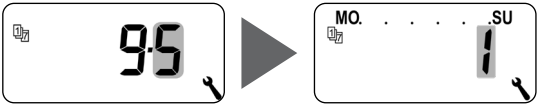
Example 1 Setting (family programme)

The room temperature is regulated to the desired target temperature or setback temperature at the same switching times on all weekdays.



MO. . . . . SU (Monday. . . . . Sunday)			
Heating phase	Time	Target temperature (SET)	
		No.	°C
1	06:00	1	21.5 °C
2	23:00	2	17.5 °C
3	- - : - -		

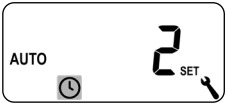
1. First open menu **9.5** and set the week programme **[1]**.



2. Then menu **2** opens automatically

   or

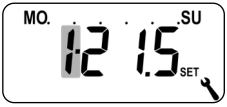
   Open menu **2** if the desired week programme is already active.



3.

   Set and confirm the starting time of the first heating phase.

   e.g. 06:00

4. 

   Select and confirm the number of the desired target temperature for this heating phase, **e.g. 1**.

5.

   Set and confirm the desired target temperature.

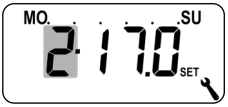
   e.g. 21.5 °C

6.

Set and confirm the starting time of the second heating phase.

e.g. 23:00

7.



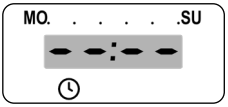
Select and confirm the number of the desired target temperature for this heating phase, **e.g. 2**.

8.

Set and confirm the desired target temperature (e.g. setback temperature).

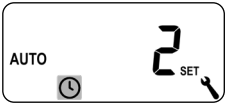
e.g. 17.0 °C

9.



Terminate and confirm the setting of the heating phases.

10.



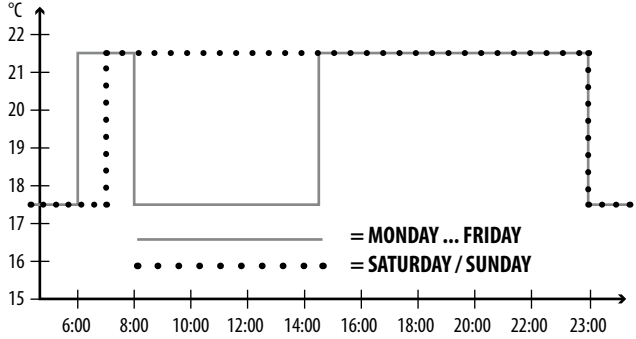
Subsequently the main menu is displayed

or

Menu **9.5**.

Example 2 Setting (single household)

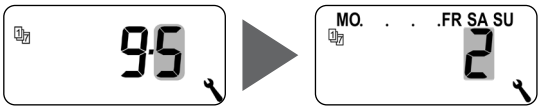
The room temperature should be regulated to different temperatures at different times on weekdays and at the weekend.



MO. . . . FR (Monday . . . . Friday)			
Heating phase	Time	Target temperature (SET)	
		No.	°C
1	06:00	1	21.5 °C
2	08:00	2	17.5 °C
3	14:30	1	21.5 °C
4	23:00	2	17.5 °C
5	--:--		

SA SU (Saturday / Sunday)			
Heating phase	Time	Target temperature	
		No.	°C
1	07:00	1	21.5 °C
2	23:00	2	17.5 °C
3	--:--		

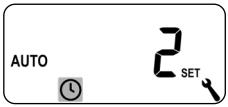
1. First open menu **9.5** and set the week programme **[2]**.



2. Then menu **2** opens automatically

or

Open menu **2** if the desired week programme is already active.



3.

Set and confirm the starting time of the first heating phase.

e.g. 06:00

4.

Select and confirm the number of the desired target temperature for this heating phase, **e.g. 1**.

5.

Set and confirm the desired target temperature.

e.g. 21.5 °C

6.

Set and confirm the starting time of the second heating phase.

e.g. 08:00

7.

Select and confirm the number of the desired target temperature for this heating phase, **e.g. 2**.

8.

Set and confirm the desired target temperature (e.g. setback temperature).

e.g. 17.0 °C

9.

Set and confirm the starting time of the third heating phase.

e.g. 14:30

10.

Select and confirm the number of the desired target temperature for this heating phase, **e.g. 1**. *

11.

Set and confirm the starting time of the fourth heating phase.

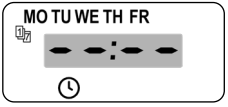
e.g. 23:00

12.

Select and confirm the number of the desired target temperature for this heating phase, **e.g. 2**. *

* The selected target temperatures cannot be changed because they are already used as they are already elsewhere in a heating phase.

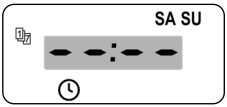
13.



Terminate and confirm the setting of the heating phases for the weekdays Monday - Friday **(MO - FR)**.

Setting the heating phases for Saturday / Sunday (SA/SU)

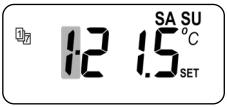
14.



Set and confirm the starting time of the first heating phase for the weekend.

e.g. 07:00

15.



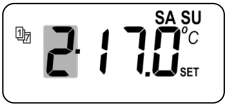
Select and confirm the number of the desired target temperature for this heating phase, e.g. 1. *

16.

Set and confirm the starting time of the second heating phase for the weekend.

e.g. 23:00

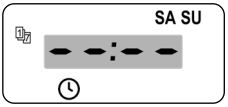
17.



Select and confirm the number of the desired target temperature for this heating phase, **e.g. 2**. *

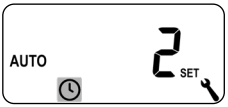
* The selected target temperatures cannot be changed because they are already used as they are already elsewhere in a heating phase.

18.



Terminate and confirm the settings for the weekend Saturday/Sunday (**SA / SU)**.

19.



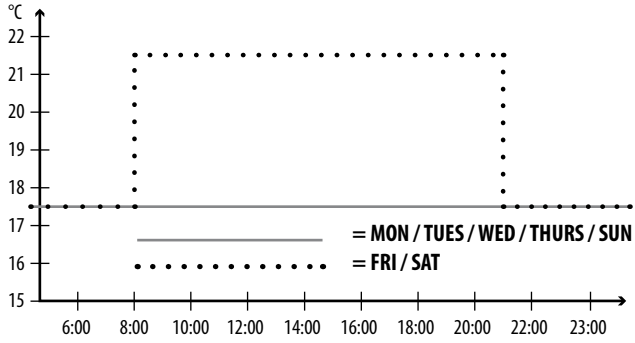
Subsequently the main menu is displayed

or

Menu **9.5**.

Example 3 Setting (home office)

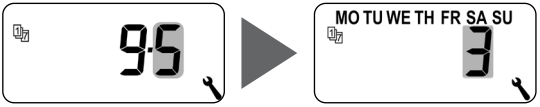
Heating should only be provided on Friday and Saturday. The room temperature should be regulated to the setback temperature on all other days.



MO / TU / WE / TH + SU (Mo / Tues / Wed / Thurs + Sun)			
Heating phase	Time	Target temperature (SET)	
		No.	°C
1	--:--		

FR + SA (Friday + Saturday)			
1	08:00	1	21.5 °C
2	21:00	2	17.5 °C
3	--:--		

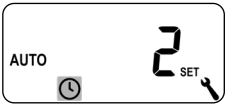
1. First open menu **9.5** and set the week programme **[3]**.

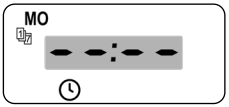


2. Then menu **2** opens automatically

   or

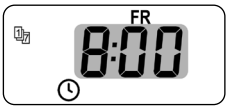
   Open menu **2** if the desired week programme is already active.



3. 

   Select and confirm - - : - - because heating should not be provided on Monday.

4. Repeat point 3 for Tuesday, Wednesday and Thursday.

5. 

   Set and confirm the starting time of the first heating phase for Friday.

   e.g. 08:00

6.

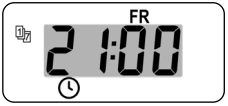
Select and confirm the number of the desired target temperature for this heating phase, **e.g. 1**.

7.

Set and confirm the desired target temperature.

e.g. 21.5 °C

8.



Set and confirm the starting time of the second heating phase for Friday.

e.g. 21:00

9.

Select and confirm the number of the desired target temperature for this heating phase, **e.g. 2**.

10.

Set and confirm the desired target temperature.

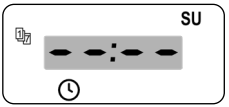
e.g. 17.0 °C

11.

Repeat points 5 to 10.
for Saturday. *

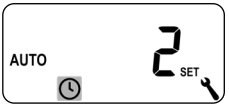
* If the same target temperatures are selected for this, they can no longer be changed.

12.



Select and confirm -- -:- -
because heating should not be provided on Sunday.

13.



Subsequently the main menu is displayed

or

Menu **9.5**.

15.3 Menu 3 - Setting target temperatures centrally

Target temperatures are configured and assigned in the installation wizard and in menu 2 "Setting automatic heating phases".

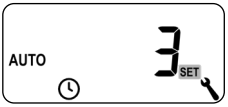
If the same target temperatures are used in different heating phases, they can only be changed centrally in menu 3.

Information about setting the target temperatures

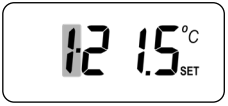
- Four target temperatures are available that can be set centrally
- Each target temperature can be randomly used, e.g. as a comfort or setback temperature.
- Central changes to a target temperature affect all automatic heating phases that use this target temperature
- The target temperatures can also be changed with the Premium gateway through the advanced settings of the HOMEPILOT Smart light receiver.

Setting target temperatures centrally

1. Open menu **3**.



2.



Select and confirm the number of the target temperature to be changed.

3.

Change and confirm the target temperature.

Setting range = 4.0 °C to 40 °C

4. Repeat points 1 to 3 if you want to change other target temperatures.

16. Menu 9 - System settings

EN

This menu enables you to configure additional devices and system settings to customise the Smart thermostat premium to your individual preferences.

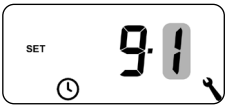
The DuoFern settings in menu 9.9 are introduced and described separately from page 103 onwards.

Menu 9 - System settings

Symbol	Menu		Page
SET	9.1	Time and date	78
	9.5	Week programme	79
	9.7	Installer settings	81
	9.8	Device settings	93
	9.9	DuoFern settings	103

16.1 Menu 9.1 - Setting the time and date

1.



Open menu **9.1**.

Configure and confirm the desired settings.

Setting order:

2.

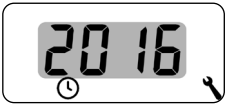
Time

3.

Date

Day.Month

4.



Year

2000 to 2099

16.2 Menu 9.5 - Setting the week programme

You can adapt the automatic heating phases individually to the weekly profile using the week programmes.

There are three week programmes available:

[1] Weekly switching times (factory setting)

The switching times of the automatic heating phases apply from (Mon .... Sun) **[MO .... SU]** .

[2] Working day and weekend switching times

Separate switching times for (Mon .... Fri) **[MO .... FR]** and (Sat + Sun) **[SA + SU]** .

[3] Individual day switching times

The switching times of the automatic heating phases can be set for each individual weekday.

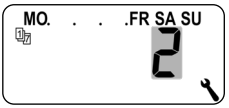
Once a week programme has been selected and confirmed, menu 2 opens automatically to set the heating phases.

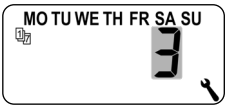
16.2 Menu 9.5 - Setting the week programme

1.

Open menu **9.5**.

2.





Select and confirm the desired week programme.

3. Menu **2** opens automatically to set the heating phases after selecting a week programme, see page 61.

16.3 Menu 9.7 - Installer settings

EN

The settings in menu 9.7 must be checked and adapted to the existing heating installation after completing the installation wizard.

Menu 9.7 - Installer settings

Symbol	Menu		Page
	9.7.1	Heating mode	82
OFFSET	9.7.2	Sensor offset	86
H	9.7.3	Hysteresis and minimum on-time	87
	9.7.4	Valve protection	88
▼	9.7.5	Frost protection	89
	9.7.6	Valve mode	90
SENSOR	9.7.7	Sensor test	92

You can set the Smart thermostat premium for one of the following heating modes.

There are three heating modes available:

[1] Room temperature controller (factory setting)

The heating is switched on when the room temperature drops below the set target temperature.

[2] Room temperature controller with limiter

This function can be used for floor heating with particularly sensitive floor coverings. Excessive cooling of the floor can also be prevented with additional heat sources (e.g. fireplace) by defining a minimum floor temperature. It is absolutely essential to connect the device to the external Temperature sensor for this heating mode.

The heating is switched on when the room temperature drops below the set target temperature. The room temperature is measured with the internal sensor.

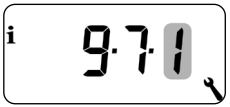
The floor temperature is measured by the external Temperature sensor regardless of the room temperature. The set minimum and maximum floor temperature is taken into account in the heating control and limited accordingly.

[3] Cooling function

The air conditioning is switched on when the room temperature exceeds the set target temperature.

Additional parameters must be set in each heating mode.

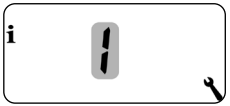
16.4 Menu 9.7.1 - Setting the heating mode

1. 

Open menu **9.7.1**.

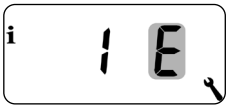
2. Continue with the desired heating mode.

2.1 **Heating mode [1] - Setting the room temperature controller.**

2.2 

Select and confirm the heating mode **[1]**.

2.3



Select and confirm the internal **[I]** or external **[E]** temperature sensor.

2.1 Heating mode [2] - Setting the room temperature controller with limiter.

2.2

Select and confirm the heating mode **[2]**.

2.3

Set and confirm the limiting value for the minimum floor temperature.

Setting range = 10°C to 30 °C

Factory setting = OFF

The setting is undertaken in steps of 1.0 °C.

2.4

Set and confirm the limiting value for the maximum floor temperature.

Setting range = 20°C to 40 °C

Factory setting = 35 °C

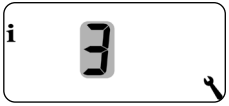
The setting is undertaken in steps of 1.0 °C.

If both a minimum and maximum temperature limit are set, the limiting values must be at least 5 °C apart.

- An incorrect setting is automatically corrected by the controller.

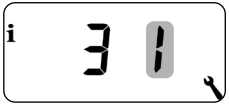
2.1 **Heating mode [3] - Setting the cooling function.**

2.2



Select and confirm the heating mode **[3]**.

2.3



Select and confirm the internal **[I]**or external **[E]** temperature sensor.

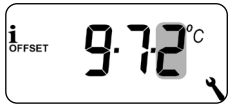
16.5 Menu 9.7.2 - Setting the sensor offset

The temperature measured on site can vary from the room temperature if the Smart thermostat premium is installed in a unfavourable position (e.g. behind a curtain or on a cool exterior wall).

Setting range

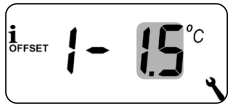
An adjustment of the measurement in the range of - 5°C to + 5 °C can be carried out using the sensor offset. The setting is undertaken in steps of 0.1°C.

1.



Open menu **9.7.2**.

2.



Set the offset for the internal temperature sensor.

e.g. -1.5 °C

3.

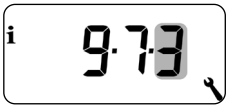
Set the offset for the external temperature sensor.

e.g. 0.5 °C

16.6 Menu 9.7.3 - Setting the hysteresis / minimum on-time

This function prevents an unnecessary large number of switching operations by setting a minimum on-time for the relay. This prevents the Smart thermostat premium tripping too often if the room temperatures fluctuate.

1.



Open menu **9.7.3**.

2.

Set the hysteresis.

Setting range = 0.1°C to 5 °C

Factory setting = 0.2°C

3.

Set the minimum on-time.

Setting range = 1 minute to 10 minutes

Factory setting = 2

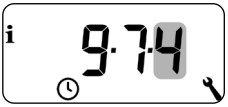
16.7 Menu 9.7.4 - Setting the valve protection

If an electrothermal control valve (e.g. for floor heating) is not activated for a longer period of time (e.g. in summer), it may get stuck.

Prevent the control valve getting stuck with the "Valve protection" function.

The valve is switched on for a set time at 10:00 if it has not been activated for longer than 3 days (>72 hours).

1.



Open menu **9.7.4**.

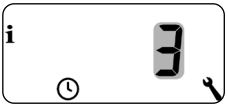
2.

Switch on the valve protection.

On = Valve protection on

OFF = Valve protection off

3.



Set the minimum on-time.

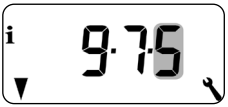
e.g. 3 minutes

16.8 Menu 9.7.5 - Setting the frost protection

EN

The "Frost protection" function switches the heating on when the minimum temperature has been reached. The function is independent of the set target temperatures.

1.



Open menu **9.7.5**.

2.

Switch on the frost protection.

On = Frost protection on *

OFF = Frost protection off

3.

Set the minimum temperature at which the heating is switched on.

e.g. 4.0 °C *

Factory setting = On; 4.0 °C

Setting range = 2.0 °C - 10 °C

Electrothermal valves with the switching states "**normally closed (NC)"** or "**normally open (NO)**" are often used for heating control. You can set the respective valve mode in menu 9.7.6 to adapt to the control valve used in each case:

[NC] **Valve mode normally closed**

The control valve remains closed in an isolated, de-energised state.

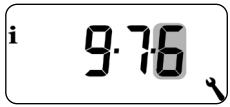
[NO] **Valve mode normally open**

The control valve remains open in an isolated, de-energised state.

The set valve mode also applies to HOMEPILOT Smart light receiver connected via radio.

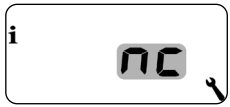
16.9 Menu 9.7.6 - Setting the valve mode

1.



Open menu **9.7.6**.

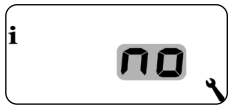
2.



Switch on the valve protection.

nc = normally closed

no = normally open



Switch off the relay if the control valve is regulated by a HOMEPILOT Smart light receiver.

If the control valve is regulated solely by a HOMEPILOT Smart light receiver or the Smart thermostat premium only controls radiator thermostats, you can switch off the relay to avoid annoying switching noises.

[-] 5 sec.	Press the minus button for 5 seconds to switch the relay off. Display when the relay is switched off: **– no** or **– nc**
[+] 5 sec.	Press the plus button for 5 seconds to switch the relay on.

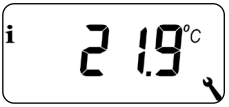
16.10 Menu 9.7.7 - Performing a sensor test

It is possible to view the readings of the temperature sensors (internal and external) to check the installation.

1.

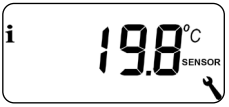
Open menu **9.7.7**.

2.

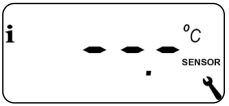


Select and display the desired temperature sensor.

Example: The internal temperature sensor measures 21.9 °C.



Example:
The external Temperature sensor measures 19.8 °C.



Example:
The external Temperature sensor is incorrect or not connected.

Menu 9.8 - Device settings

Symbol	Menu		Page
	9.8.1	Automatic summer / winter changeover	94
	9.8.3	Display lighting	95
	9.8.5	Button lock	96
▼	9.8.6	Holiday mode	98
▲	9.8.7	Party mode	100
	9.8.0	Software version	102

17.1 Menu 9.8.1 - Switching the automatic summer/ winter time on/off

EN

The Smart thermostat premium features an automatic summer/ winter changeover function.

Summer time

The timer is changed to summer time on the last Sunday in March. The timer is set back one hour at 02:00.

Winter time

The timer is changed to winter time (standard time) on the last Sunday in October. The timer is set back one hour at 03:00.

Recommendation for operating the device outside Germany

If the Smart thermostat premium is not being used in Germany, it may be necessary to switch off the automatic summer/winter changeover function.

1.

Open menu **9.8.1**.

2.

Switch the summer/winter changeover function on/off and confirm.

OFF = Function off

On = Function on

Pressing one of the operating buttons switches the background lighting on the display on and off after a predetermined time.

- After 10 seconds on the standard display
- After approx. 1 minute in the menus

You can set the desired brightness level if the background lighting should remain permanently lit up in an idle state (without pressing a button).

1.

Open menu **9.8.3**.

2.

Set and confirm the desired brightness levels.

0 = Switch off the permanent display lighting

1 = Weak brightness

2 = Average brightness

3 = Maximum brightness

17.3 Menu 9.8.5 - Switching the button lock on/off EN

You can activate the automatic button lock to protect against any unintentional input.

1.

Open menu **9.8.5**.

2.

Switch the button lock on/off and confirm.

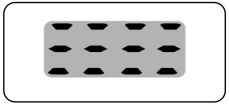
OFF = Button lock off

On = Button lock on

Automatic activation after approx. two minutes

If the button lock is activated and no buttons are pressed within a period of two minutes, the button lock is switched on automatically.

If an attempt is made to call up the menu when the button lock is active, the display flashes.



The button lock is deactivated manually on the standard display

4 sec.	Press and hold for 4 seconds.

The button lock is activated manually on the standard display before the time limit expires

4 sec.	Press and hold for 4 seconds if you want to activate the automatic button lock before the two minutes expire.

Manual operation of the Smart thermostat premium is also possible when the button lock is active.

17.4 Menu 9.8.6 - Setting the holiday mode incl. the setback temperature

EN

You can switch on a holiday mode and set the desired setback temperature on the Smart thermostat premium. The holiday mode can then be directly activated on the standard display.

The heating is regulated to the setback temperature when the holiday mode is activated.

1.

Open menu **9.8.6**.

2.

Switch the holiday mode on/off and confirm.

OFF = Holiday mode off

On = Holiday mode on

3.

Set and confirm the setback temperature.

e.g. 17.0 °C

17.4 Menu 9.8.6 - Setting the holiday mode incl. the setback temperature

Activating the setback temperature temporarily on the standard display

[-] 1 sec.	Press and hold for 1 second to temporarily activate the setback temperature. The heating is regulated to the setback temperature until the next automatic heating phase becomes active.
	Manual mode The hand symbol is shown if you press the button briefly.

Activating the setback temperature permanently on the standard display (holiday mode)

[-] 4 sec.	Press and hold for 4 seconds to permanently activate the setback temperature (holiday mode). The automatic heating phases have been deactivated.
	Automatic mode off The clock symbol disappears when you press and hold the button.

17.5 Menu 9.8.7 - Setting the party mode incl. the comfort temperature

EN

You can switch on a party mode and set the desired comfort temperature on the Smart thermostat premium. The party mode can then be directly activated on the standard display.

The heating is regulated to the comfort temperature when the party mode is activated.

1.

Open menu **9.8.7**.

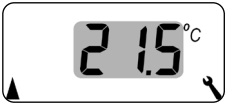
2.

Switch the party mode on/off and confirm.

OFF = Party mode off

On = Party mode on

3.



Set and confirm the comfort temperature.

e.g. 21.5 °C

17.5 Menu 9.8.7 - Setting the party mode incl. the comfort temperature

Activating the party mode temporarily on the standard display

[+] 1 sec. Press and hold for 1 second to temporarily activate the party mode. The heating is regulated to the comfort temperature until the next automatic heating phase becomes active.

Manual mode

The hand symbol is shown if you press the button briefly.

Activating the party mode permanently on the standard display

[+] 4 sec. Press and hold for 4 seconds to permanently activate the party mode. The automatic heating phases have been deactivated for this.

Automatic mode off

The clock symbol disappears when you press and hold the button.

17.6 Menu 9.8.0 - Displaying the software version

EN

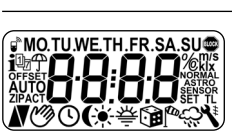
This menu enables the current software version of the Smart thermostat premium to be displayed.

1.

Open menu **9.8.0**.

2.

Subsequently the current software version is displayed.

3. 

[∧] / [∨] Carry out a display test.

4. [OK] Back to the menu 9.8 Device settings.

18. Menu 9.9 - DuoFern settings

In order for your Smart thermostat premium to receive and send control signals in the DuoFern network, it is necessary to log any desired DuoFern device (e.g. HOMEPILOT Smart light receiver etc.) on to the Smart thermostat premium.

To do so, please also read the operating manual of the respective DuoFern device.

Maximum number of connected devices

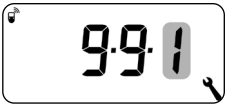
You can log a maximum of 20 DuoFern devices on to a Smart thermostat premium.

Additional information about logging on can be obtained from the login matrix on our website at:

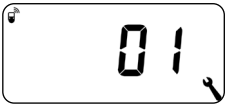
www.homepilot-smarthome.com

Menu 9.9 - DuoFern settings

Symbol	Menu		Page
	9.9.1	Logging on and off	104
	9.9.2	Setting the DuoFern mode	108
	9.9.3	Setting the transmission channel	110
i ☂	9.9.4	Switching the weather data on/off	111
i ACT	9.9.5	Displaying the DuoFern address (radio code)	113

1. 

Open menu **9.9.1**.

2. 

The number of DuoFern devices logged on is displayed.

For example, one device is logged on here.

3. Logging on DuoFern devices.

3.1

Switch the respective DuoFern device to login mode.

3.2 [∧]

Start the login procedure.

3.3

The display flashes [**On**].

3.4

The new number of logged-on devices is displayed after a successful login.

3.5 Log on the next DuoFern device

or

Back to the menu selection.

4. Logging off DuoFern devices.

4.1

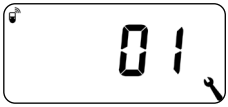
Switch the respective DuoFern device to log-off mode.

4.2 [V]

Start the log-off procedure.

4.3

The display flashes [**OFF**].

4.4 

The new number of logged-on devices is displayed after a successful log-off.

4.5 Log off the next DuoFern device

or

Back to the menu selection.

Deleting all connections to the logged-on DuoFern devices

1. [V] 4 sec. — Press and hold the set button for 4 seconds.

2.

The display flashes [**OFF**].

3.

Subsequently all of the connections are deleted.

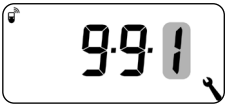
Deleting the connections can lead to problems for the participants, whereby the Smart thermostat premium is still logged on after the deletion process.

- Always use the "Log-off" function to terminate the connection with other DuoFern devices.

Clearing up the DuoFern network

This function enables you to log off all DuoFern devices from the Smart thermostat premium that are no longer accessible via radio.

All battery-operated DuoFern transmitters cannot be logged off using this function.

1. 

Open menu **9.9.1**.

2.

The number of DuoFern devices logged on is displayed.

3. SET 4 sec.

Activate the clear up function.

In order to do this, press and hold the SET button for approx. 4 seconds.

4.

The display flashes.

4.1

The current number of DuoFern devices logged on (e.g. 2) is displayed after a successful clear up.

The Smart thermostat premium features two DuoFern modes that enable you to specify how the it behaves within the DuoFern network or in the local installation on site.

Setting heating phases centrally in the Premium gateway or locally in the Smart thermostat premium

[1] DuoFern receiver

- Heating phases are controlled centrally (e.g. through routines), for example, by the Premium gateway
- No local heating phases can be set and activated in this mode

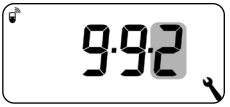
[3] Local operation (factory setting)

- The heating phases set in the Smart thermostat premium are stored locally
- In addition, control commands can also be received and executed from the DuoFern network (e.g. from a Smart remote control 6 groups)

All manual and automatic control signals received via radio are executed on site regardless of the set mode.

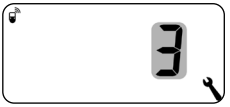
18.2 Menu 9.9.2 - Setting the DuoFern mode

1.



Open menu **9.9.2**.

2.



Set and confirm the desired DuoFern mode.

1 = DuoFern receiver

3 = Local operation

If a HOMEPILOT Smart light receiver is logged on to the Smart thermostat premium via radio, a control valve can be regulated by this. Direct cabling between the Smart thermostat premium and the control valve is not required.

If a multi-channel HOMEPILOT Smart light receiver is used for this, the channel that is used must be set on the Smart thermostat premium.

Pay attention when wiring the HOMEPILOT Smart light receiver to the control valve to the channel used and check that the control valve actually also controls the control commands of the Smart thermostat premium.

1.

Open menu **9.9.3**.

2.

Set and confirm the transmission channel.

1 = Channel 1
2 = Channel 2
A = All channels

18.4 Menu 9.9.4 - Switching the weather data on/off

EN

The Smart thermostat premium can receive and display weather data (temperature, brightness, wind velocity and rain) from a Smart weather sensor. It is not necessary to log the Smart weather sensor on to the Smart thermostat premium.

The weather data can be called up and displayed directly on the standard display, see page 55.

Maximum number of weather sensors

- A maximum of 4 weather sensors are detected
- Only one sensor can ever be selected as the source

Observing delays in displaying the weather data

Weather sensors update the weather data approx. every 5 minutes and therefore it can take a few minutes for the weather data to be displayed after the settings are configured.

- This also applies after a power failure.
- If no new weather data is received for 45 minutes, this is no longer available.

18.4 Menu 9.9.4 - Switching the weather data on/off

EN

1.

Open menu **9.9.4**.

2.

Switch the weather data display on/off and confirm.

OFF = Off

On = On

3.

The last four digits of the DuoFern address (radio code) of the current weather sensors are displayed.

Display if no weather sensor has been received or is in radio range so far.

4. [∧] / [∨]

Select and confirm the desired weather sensor.

Deleting all detected weather sensors

[⊙]

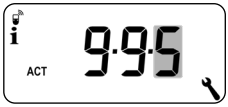
Briefly press the SET button.

All weather sensors are deleted.

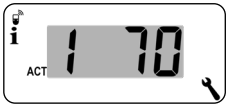
18.5 Menu 9.9.5 - Displaying the DuoFern address (radio code)

EN

Each DuoFern device has an address (radio code) via which it communicates on the DuoFern network. If necessary, you can display the DuoFern address of the Smart thermostat premium.

1. 

Open menu **9.9.5**.

2. 

Two digits of the six-digit address are always shown in the form of scroll text, see example.

3. M or OK

Back to the menu selection.

19. Deleting all settings, software reset

A software reset can be carried out to reset the Smart thermostat premium to the original default condition as when supplied.

All settings in menu "**9.7 Installer settings**" are also lost in the process.

- Make sure that you note all settings in menu 9.7 before carrying out a software reset and check these after the reset.

1. M + ∧ + ∨ + OK Press and hold the four buttons simultaneously for five seconds until all of the symbols are shown on the display.

2.

The software version is then shown for five seconds.

All settings are deleted and reset to the default factory settings.

3. Start with the settings as specified from page 49 onwards (installation wizard).

The DuoFern connection data is retained after a software reset. You can log off or delete DuoFern devices in menu 9.9.1, see page 104.

20. Carrying out a hardware reset

A hardware reset can be carried out in the event that the Smart thermostat premium no longer react to commands.

1. To do so, pull the operating unit out of the installation housing.

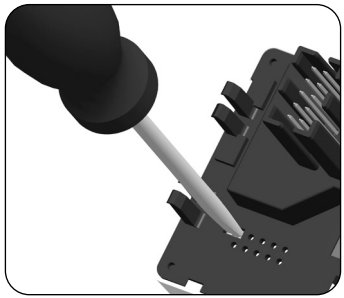
⚠ ATTENTION!

Risk of damage due to the overheating or excessive cooling of the room or flooring.

The relay output remains unchanged if the operating unit is pulled out of the installation housing during operation. Control and limiting functions where appropriate are no longer provided.

- Make sure that a relay state that poses no risk is set before removing the operating unit.
- Switch off the central heating or air conditioning beforehand if necessary.

2. Two contacts, which must be carefully bridged for a few seconds, for example, with the help of a flat-head screwdriver, are located in the centre of an opening on the rear of the operating unit.



3. The operating unit can be reinserted into the installation housing as soon as the screwdriver has been removed from the contacts.

   The time and date are lost during a hardware reset. All other settings are retained.

21. Error messages

Error 1

The Smart thermostat premium has an invalid DuoFern address (radio code).

- Please carry out a hardware reset, see page 116.
- Check the DuoFern address (radio code) in menu 9.9.5 if the problem persists, see page 113.
  - Please then contact the HOMEPILOT Service department.

Error 2

The Smart thermostat premium has overheated and switched off for safety reasons.

- It is very likely that a large load has been connected.
- The maximum permissible connected loads can be found in the technical specifications, see page 34.
- The error message can only be confirmed by pressing the OK button when the device is no longer overheating.

Error 2

The Smart thermostat premium does not function until the error has been confirmed. The controller is switched off.

Error 3

There is a communication problem.

- Check that all logged-on actuators and the Premium gateway if necessary are connected properly and are within range.
- A repeater may be required for larger distances.

  Each DuoFern device that is connected to the mains power supply is a repeater (e.g. switch actuator sockets, Premium gateway, HOMEPILOT Smart light receivers etc).
- If devices have been logged on that are no longer available (e.g. due to a defect, amongst other things), these can be deleted by the "Clear up" function, see page 107.
- In the event of a transmission error, the device makes an attempt to reach the HOMEPILOT Smart light receiver or the Premium gateway again every 10 minutes.

  The error message disappears automatically if this is successful.

Error 4

The temperature sensor provides invalid readings.

- Carry out a hardware reset, see page 116.
- If an optional external temperature sensor (Temperature sensor) is connected, please check the cabling.
- Please contact the HOMEPILOT Service department if only the internal sensor is used and the problem still persists.
- The readings of the sensors can be checked in menu 9.7.7, see page 92.
- The controller switches to an emergency mode in the event of a faulty sensor by switching on for 6 minutes (30%) and switching off for 14 minutes (70%). This prevents excessive cooling of the room and overheating of the floor.

22. Dismantling

DANGER!

There is a risk of fatal electric shock when touching electrical components.

- Disconnect all phases of the mains power cable and secure it to prevent any reconnection. Check that the system is de-energised.

1. Log the Smart thermostat premium off the DuoFern network.
2. Switch off the mains power, secure it from restarting and check that the system is de-energised.
3. Carefully pull the operating unit out of the installation housing.
4. Remove the frame.
5. Release the claw fasteners of the installation housing and pull it out of the flush-mounted box.
6. Disconnect the connecting cable from the installation housing.
7. Secure the connection point against restarting and the connecting cable from unintentional contact.

23. Simplified EU Declaration of Conformity

DELTA DORE RADEMACHER GmbH hereby declares that the Smart thermostat premium complies with the Directive **2014/53/EU** (**Radio Equipment Directive**).

The full text of the declaration of conformity is available at the following website:

www.homepilot-smarthome.com

Warranty terms and conditions

Information on the warranty conditions is enclosed with the product.

24. Accessories

Information about the accessories can be reached via our website.

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