

# D4H INFRARED PANEL HEATING SYSTEM THERMOSTAT

## USER MANUAL



### 1. CONTROL FEATURES:



**Hold button:** switches between the “Hold” and “Automatic” modes. This button also has further additional functions.



**Exit button:** closes the respective menu screen and refreshes the data on the display.



**Menu button:** switches to the main menu of the menu currently selected.



**Off button:** switches the heating system off regardless of the mode currently selected.











**Up/down buttons:** for selecting menu options and changing the desired temperature in “Hold” mode.






**Enter button:** confirms the menus selection and displays the setting options. This button also has further additional functions.

## 2. ICONS:


- |   |  |
|---|--|
|  Heating system is switched off. |  Nighttime temperature display. |
|  "Hold" mode is enabled.         |  Daytime temperature display.   |
|  "Automatic" mode is enabled.    |  Radio connection is active.    |
|  Battery level display.          |  Heating system is active.      |


## 3. MAIN SCREEN:

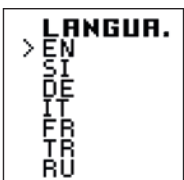
- 
- |                       |   |                              |
|-----------------------|---|------------------------------|
| Day of the week       | MO 01. 01.  | Date                         |
|                       | 12 : 00   | Time                         |
|                       | 21.5°C  | Current temperature          |
| Enabled mode          |  | Desired temperature          |
| Heating system active |  | Battery level display active |

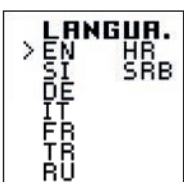
## 4. CONFIGURATION OF THE REMOTE CONTROL (THERMOSTAT)


### 4.1. LANGUAGE SELECTION

- 
- Switch the remote control on. To do so, select the top left button (see figure). All basic settings are displayed in English.
- Information is now displayed on the screen (see figure).


- 
- Pressing the "Menu" button displays the following information on the screen in English.


- 
- Pressing the "Enter" button confirms the language selection. The language selection is then displayed on the screen (see figure).

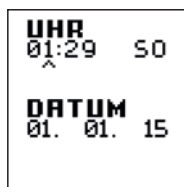
- 
- Move to a different language selection by pressing the **up/down arrows** and confirm the language selection by pressing the "Enter" button.


- 
- The basic settings are now displayed in the language selected (see figure).


### 4.2. SETTING THE TIME/DATE

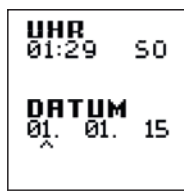
- 
- Pressing the "Menu" button displays the following information on the screen.

- 
- Press the **up/down arrows** to move to the "TIME" function.

- 
- Press the "Enter" button to confirm the selection and open the selection mode for the time and date.


- 
- Change the time by pressing the **up/down arrows** accordingly.

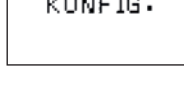
- 
- After setting the minutes, confirm by pressing the "Enter" button. The arrow icon now appears under the day of the week, indicating that this can be set. Repeat the procedure for setting the time; press the **up/down arrows** to select the day of the week.

- 
- Pressing the "Enter" button once again selects the "DATE". Use the **up/down arrows** as before to select the day/month/year and then confirm the selection by pressing the "Enter" button.

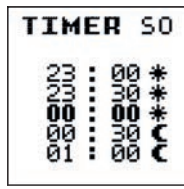
- 
- Press the "Exit" button to save the time/date and to exit the selection mode.

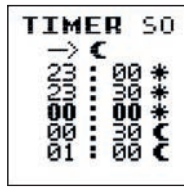


### 4.3. SETTING THE TIMER/HEATING PERIODS (MO-SU; 00:00-24:00)

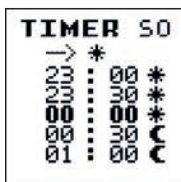
- 
- Press the "Menu" button to set the timer and heating periods. The display appears as in the figure.

- 
- Use the **up/down arrows** to move to the "TIMER" selection option.



- 
- Confirm the selection by pressing the "Enter" button. The figure shows the display on the screen. Press the "Hold" button on the bottom left to select the appropriate day of the week. The day of the week is then displayed on the top right of the screen.

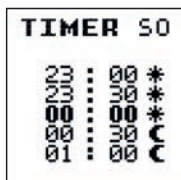
- 
- Press the "Enter" button to select the moon icon  in order to set the nighttime temperature reduction (see figure). Then use the **up/down arrows** to select the time when the nighttime reduction is to be enabled. The time selected is displayed in bold and the moon icon  is displayed to the right of it.



To set the daytime temperature, first select the sun icon ☀ by pressing the **“Enter”** button (see figure). Then select the desired time by pressing the **up/down arrows**, when the daytime temperature is to be enabled. Once again, the time selected is displayed in bold and the sun icon ☀ is displayed to the right of it.

Example in the figure:

Nighttime reduction from 00:30 as marked by the moon icon ☾ and daytime temperature until 00:00 as marked by the sun icon ☀.



Pressing the **“Enter”** button opens a neutral selection mode (without the moon or sun icons). This allows you to check the settings for the nighttime temperature reduction period and the daytime heating period by using the **up/down arrows** once again, to see whether the timer has been set as desired. Press the **“Exit”** button to confirm and save the timer and exit the selection mode.

#### 4.4. TEMPERATURE (SETTING THE DAYTIME/NIGHTTIME TEMPERATURE)



Press the **“Menu”** button to select the menu.

Use the **up/down arrows** to move to menu item **“TEMPE.”** to select the temperature (see figure).



Press the **“Enter”** button to confirm the selection of this menu item. The following is displayed on screen. Use the **up/down arrows** to set the desired daytime (DAY) temperature. Pressing the **“Enter”** button again confirms the temperature and automatically moves to the nighttime (NIGHT)

temperature setting. Use the **up/down arrows** once again to set the desired nighttime temperature. Press the **“Exit”** button to confirm, save and exit the temperature settings.

### 5. LEARNING PROCEDURE FOR THE DEVICE:

#### 5.1. CONFIGURATION MODE (CONNECTION BETWEEN THE INFRARED PANEL AND THE REMOTE CONTROL)

Switch on level 1 on the infrared panel by switching the on/off push button switch to ON (see figure).

Press the **“LRN”** button (Learn button) down for less than 5 seconds. The red indicator light then begins to flash (the infrared panel is now ready for the learning procedure).



Switch on the remote control. To do so, press the top left button (see figure).

Press the **“Menu”** button to establish the connection between the infrared panel



and the remote control. The display will now appear as in the figure.



Then use the **up/down arrows** to select **“KONFIG.”** and confirm by pressing the **“Enter”** button.

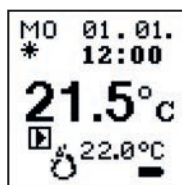


The display will now appear as in the figure. Press the **“Enter”** button to confirm the pre-configured **“PAAR”** selection mode in order to establish the connection. The small icon in the bottom centre of the screen briefly lights up once. The red indicator light on the infrared panel that was previously flashing

(**“LRN”** button) stops flashing and stays illuminated briefly, before beginning to flash once more.



Then press the **down arrow** to select **“AUS. LRN”** and confirm by pressing the **“Enter”** button. The small icon in the bottom centre is illuminated briefly.



Press the **“Exit”** button to exit the menu. **Note:** the flame icon 🔥 appears after a few seconds. This indicates that the heating procedure is active.



After pressing the **“Hold”** button, the display appears as in the figure. Pressing the **“Hold”** button again enables the following three modes:

**“Automatic”** mode: the pre-configured daytime and nighttime temperatures are active, as indicated by the icon on the lower left of the screen.

Pressing the **“Hold”** button again switches to **“Manual”** mode, indicated by the icon on the lower left of the screen. In this mode, the temperature can be adjusted as required using the up/down arrows (warmer/cooler), thereby changing the settings of the **“Automatic”** mode.

Pressing the button on the left switches the infrared panel to **“Heating off”**, indicated by the icon on the screen.

**Note:** the constant red light indicates that the heating system is active (the panel is heating) and the flame icon 🔥 appears on the screen. As soon as the set temperature has been reached, the red light goes dark and remains dark until the panel begins to heat again. The connection between the infrared panel and the remote control has been established successfully.

#### 5.2. RESETTING THE INFRARED PANEL TO ITS FACTORY SETTINGS



Press the **“Menu”** button to enable the factory settings.



Then use the **up/down arrows** to select **“KONFIG.”** and confirm by pressing the **“Enter”** button.



The display appears as in the following figure.

Use the **up/down arrows** to select **“FAC. SET”**.





- Press the "Enter" button to confirm. Then use the up/down arrows to select either JA or NEIN
- to confirm whether or not the factory heating times and temperatures should be re-enabled.
- 

**IMPORTANT/NOTE:**



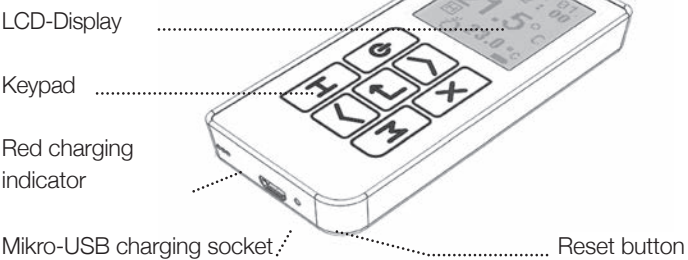
The power cable of the infrared panel heating system **must** be connected to the electrical power supply and level 1 must be enabled.



Without electricity supply, the infrared panel **cannot** function and it is not possible to establish a connection with the remote control.

**6. MAIN COMPONENTS:**

**REMOTE CONTROL**



**RECIPIENT DEVICE**



**7. STANDBY MODE AND OPERATION:**

The device is designed to be in standby mode for as much time as possible in order to maximize battery life. The standard operation sequences are as follows:

**Standby mode >** duration 5 minutes, IC = 2.8 µA (LCD off )

**Active mode TX >** every 5 minutes for 7 milliseconds, average IC = 22 mA (LCD off ). In this sequence, the device measures the temperature and transmits an ON/OFF telegram to the recipient devices.

**Active mode IDLE >** can be triggered by pressing any button. The LCD display is switched on and the user can use the device to its full extent. IDLE IC in this mode is 150–230 µA. If, after 5 minutes, no button has been pressed on the device, standby mode is automatically enabled (LCD on).

**8. STORING VALUES:**

The daytime/nighttime schedule last set, the desired temperature, daytime and nighttime temperatures and the language settings are automatically, permanently stored in the device memory 5 minutes after the last setting was changed. These settings are loaded from the memory when the device is started up again after the battery has completely run down as well as for the remaining operating time.

**9. TROUBLESHOOTING:**

If the thermostat is malfunctioning, you can reset it by pressing the reset button. If the thermostat continues to malfunction, the battery level may be too low. If resetting and charging the device do not rectify the malfunction, the real time clock is incorrect or not set. This can be set in the "Time" menu.