

TOUCH SCREEN HYDRONIC THERMOSTAT

USER MANUAL



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General

The Diesleheat Touch Screen Thermostat is designed to control the room temperature and hydronic furnace in a Dieselheat hydronic hot water and heating system.

Turning The System ON/Off

- Press 👌 to activate the system.
- Press <u>ss</u> to turn on the furnace for hot water.
- Press 😽 to activate the air heating.
- Press 👌 to switch the system off.

Furnace and fan settings are retained when the system is turned off and will return when it is switched on again.

Controlling Air Heating

- The furnace must be on for the air heating to work.
- Use the fan in S low, S medium, or S.
 high to set the fan speed manually.
- Use the fan in **S** for the fan speed to vary automatically to maintain a set temperature.
- Use \triangle and \bigtriangledown to set the desired room temperature.

Display Icons & Buttons





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Keypad Lock/Unlock

Push and hold \triangle and \bigtriangledown simultaneously for **5 seconds** to LOCK all buttons.

Push and hold \triangle and \bigtriangledown simultaneously for **5 seconds**to UNLOCK all buttons.

Screen Sleep

The screen will go blank approximately 15 seconds after the last button press. To wake it up, press any button. If the furnace or air heating fan is running, **"ON**" will remain visible on the screen.

High Altitude Mode

If operating above 1,500m, the system must be set to High Altitude Mode:

- Press and hold 555 for 8 seconds until 🖄 appears on the screen.
- This setting is retained even when the system is turned off.
- To disable High Altitude Mode, press and hold <u>555</u> again for **8 seconds**.

DO NOT USE HIGH ALTITUDE MODE UNLESS OPERATING AT ALTITUDE

System Alerts and Errors

When the furnace detects an issue, 📐 will appear on the screen.

- Some errors will stop the furnace from operating.
- Others serve as warnings, but the system will continue running.
- To find the cause of the alert, retrieve the error codes.

Retrieving Error Codes

- 1. Press and hold *states and states and states and hold states and states an*
- 2. The controller will display error codes in the format El 00122.
- 3. Up to **six** error codes will be displayed in sequence.
- 4. For a full list of error codes, scan the QR code

Deleting Error Codes

- While error codes are displayed, press and hold
 555 and 5 for 4 seconds.
- 2. The screen will flash E00000 three times, confirming that the error codes have been deleted.

No Furnace

If the **No Furnace** indicator appears, it means the thermostat's CAN functions are enabled, but no Eberspacher furnace is detected. This suggests the thermostat is attempting to communicate with the furnace but cannot establish a connection.





Adjusting Thermostat Parameters

Some thermostat settings can be customized. The default settings are suitable for most situations and typically do not need adjustment.

How to Change Parameters:

- 1. Ensure the thermostat is turned off.
- 2. Press and hold 555 and \triangle for **3 seconds** to enter **Parameter Mode**.
- 3. Use *st* to scroll through available parameters.
- 4. Adjust settings using \triangle and ∇ .
- 5. Changes are saved instantly.
- 6. Turn the thermostat off to exit **Parameter Mode**.

CODE	PARAMETERS	RANGE	DEFAULT
1	Temp calibration/offset	-9 °C ~+9 °C	0 ° O
2	Temperature Display	0 Deg C, 1 Deg F	Deg C
3	CAN Communication	0 Disable, 1 Enable	Enable
4	Fan auto mode P-band range	2, 4, 6, 8, 10	10
5	Fan auto mode I-time range	1 - 60 mins	3 mins
6	Min EC Output for Auto Fan	0 - 10 Vdc	0 Vdc
7	Max EC Output of Auto Fan	0 - 10 Vdc	10 Vdc
8	Low Fan Speed for EC fans on manual mode	0 - 10 Vdc	2 Vdc
9	Medium Fan Speed for EC fans on manual	0 - 10 Vdc	5 Vdc
10	High Fan Speed for EC fans on manual mode	0 - 10 Vdc	10 Vdc
11	Min PWM Output for Auto Fan	0 - 100%	0% (00 stands for 0%)
12	Max PWM Output for Auto Fan	0 - 100%	100% (10 stands for 100%)
13	Low Fan Speed for PWM fans on manual mode	0 - 100%	20%
14	Medium Fan Speed for PWM fans on manual	0 - 100%	50%
15	High Fan Speed for PWM fans on manual	0 - 100%	100%
16	HW Temperature Display*	0 Off, 1 On	Off
17	Batton Backlight	0 Off, 1 On	On

* If Parameter 16 is set to Off the main temperature display is based on the internal sensor or the external sensor if connected. If set to On the main display is always based on the internal sensor and the temperature sensed by the external probe is displayed in the top right of the controller. This allows the actual hot water temperature to be displayed in solar hot water systems.

Note: Parameters 2 and 3 adjust the sensitivity of the fan in Auto mode. P sets the speed at which the fan adjusts as the set temp is approached and T sets the time interval at which the controller adjusts the fan.