



DT-two Thermostat User Guide

Easy Touch. Easy Warm.



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Introduction

The DT-two is an intuitive programmable thermostat used to control your underfloor heating. Featuring a colour screen, 7 day schedule and open window technology, it will keep your home at a comfortable temperature whilst minimising energy use.



Technical Specifications

Supply Voltage: 85-265Vac 50/60Hz

Standby Power: < 1W

Max Load: 16A

IP Class: IP21

Cable Specification: $\leq 2.5\text{mm}^2$

Installation



1

Loosen the fixing screw located at the bottom of the thermostat to remove the front panel from the back panel.



2

Connect the thermostat according to the wiring diagram.



3

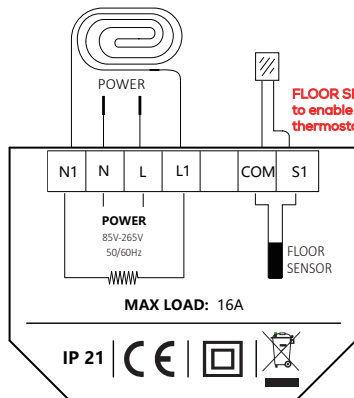
Insert the back panel into the wall box with the screws provided.



4

Align the top part of the front panel with the back panel and connect them back together, then replace the fixing screw at the bottom.

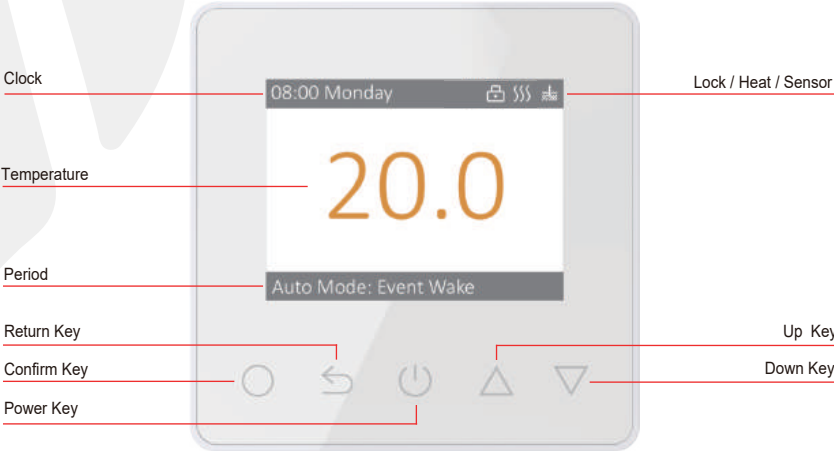
Wiring Diagram



FLOOR SENSOR - The floor sensor must be installed in conduit to enable replacement (available separately) and validate your thermostat warranty.

Suggestion: Please keep the max load around 90% of 16A to prolong the lifetime.

Thermostat Symbols



Benefits of Underfloor Heating

Luxurious warm floors

Even heat from floor to ceiling

Works with all floor coverings


Saving space throughout your home

Energy efficient and cost effective






Function & Operation


1. On/Off

Press  to turn On/Off. Note: When frost protection is active, the thermostat will maintain the frost protection temperature when on standby.

2. Manual Temperature Override

You can temporarily override the current temperature, if this done it will only be for the current timed period and will not be saved. To override the current temperature, with the temperature showing, press   to set the temporary override temperature. Press  to confirm and return to the displayed temperature.


3. Key-Lock

Lock all keys to prevent the settings from being changed. On the actual temperature interface, press and hold  for 3 seconds to lock or unlock all the keys.


4. Brightness


Change the brightness of the display.

On the actual temperature interface, press  to enter **Setting** on the thermostat.

Press   to select **Brightness**.

Press  to enter **Brightness**.


Press   to set brightness.

Press  to go back to **Setting**.

5. Set the Time

On the actual temperature interface, press  to enter **Setting** on the thermostat.

Press   to select **Time**.

Press  to enter **Set Day**.

Press   to set day.

Press  to enter **Set Hour**.

Press   to set hour.

Press  to enter **Set Minute**.

Press   to set minute.

Press  to back to **Set Day**.

* If the thermostat is connected to WiFi, it will update the time automatically after connecting to internet.

6. Holiday Mode

In Holiday Mode, the thermostat will maintain the set temperature until the holiday time ends.

On the actual temperature interface, press  to enter **Setting** on the thermostat.



Press  to enter **Mode**.

Press   to select **Holiday Mode**.

Press  to enter **Set Days**.

Press   to set days.

Press  to enter **Set Temperature**.

Press   to set temperature.

Press  to back to the actual temperature interface.

7. Hold Mode



In Hold Mode, the thermostat will hold the set temperature until you cancel this mode.

On the actual temperature interface, press  to enter **Setting** on the thermostat.

Press  to enter **Mode**.

Press   to select **Hold Mode**.

Press  to enter **Set Temperature**.



Press   to set temperature.

Press  to back to the actual temperature interface.



8. Edit Settings

Edit setting can set and change the parameters. "If you choose Auto Mode, the thermostat runs according to the parameters of Edit Setting.



On the actual temp interface, press  to enter **Setting** on the thermostat.

Press   to select **Edit Setting**.

Press  to enter **Select Day**.

Press   to select day.

Press  to enter **Select Event**.

Press   to select event.





Press  to enter **Start Time-Hour**.

Press   to select start time-hour.

Press  to enter **Start Time-minute**.

Press   to select start time-minute.

Default Parameters

Day	 (Wake)	 (Leave)	 (Return)	 (Sleep)
Mon - Fri	07:00 22.0°C	08:30 19.0°C	17:00 22.0°C	22:00 19.0°C
Sat / Sun	08:00 22.0°C	08:30 22.0°C	17:00 22.0°C	22:00 19.0°C

9. Advanced Settings

The thermostat provides Advanced Settings to suit various situations. The Advanced Settings menu is where the master settings of the thermostat are changed, normally only by the installer or if advised by Amber.

On the actual temperature interface, press  to enter **Setting** on the thermostat.

Press   to select **Advanced Setting**.

Press  to enter **Advanced Setting**.

Each parameter can be accessed by pressing  and adjusting the values as required.

9. Advanced Settings

Number	Name	Default Setting	Options
1	Room Temp Calibration	0.0°C	-5.0°C - 5.0°C
2	Floor Temp Calibration	0.0°C	-5.0°C - 5.0°C
3	Anti-frozen Switch	ON	ON/OFF
4	Anti-frozen Temperature	5.0°C	5.0°C - 15°C
5	Floor Temperature Limit	30°C	20.0°C - 50°C
6	Temperature Tolerance	1.0°C	0.5°C / 1.0°C / 2.0°C / 3.0°C
7	°F / °C	°C	°F / °C
8	Sensor Selection	Floor	Floor / Room / Both
9	Schedule	5+1+1	7/5+1+1
10	Time Delay	0S	0S / 30S / 60S / 90S
11	Adaptive Function	OFF	ON / OFF
12	Open Window	OFF	ON / OFF
13	Language	English	English / German / Spanish / French
14	Power Set	0W	0W - 4500W
15	Energy Use	-	-
16	Sensor Type	B3950-10K	B3950-10K / B3380-10K / B3700-10K / B3600-12K / Custom Sensor 15K
17	Factory Reset	-	NO/YES

1. **Room Temp Calibration:** Calibrate the room temp detected by room sensor.
2. **Floor Temp Calibration:** Calibrate the floor temp detected by floor sensor.
3. **Anti-frozen Switch:** This option allows you to turn frost protection on / off.
4. **Anti-frozen Temperature:** Adjust the frost protection trigger temperature.
5. **Floor temperature limit:** If you choose both sensors, floor temp limit must be set to protect floor.
6. **Temperature Tolerance:** The value is 1°C. The thermostat will start to heat when the actual temperature is 1°C lower than set temperature and stop heating when the actual temperature is 1°C higher than set temperature.
7. **°F / °C:** °C and °F can be selected.
8. **Sensor selection:**
Floor sensor: Floor sensor must be used when the thermostat is used with electric underfloor heating or is not installed in the same room as the heated floor.
Room sensor: Heating controlled with the air sensor only.
Both sensors: Controlling room temperature with floor temperature limitation as per floor temperature limit above.
9. **Schedule:** Select a weekly timer schedule. There are two options:
7: each day from Mon to Sun can be set individually.
5+1+1: 5 days from Mon to Fri have the same events, Sat and Sun can be set individually.
10. **Time delay:** This option is a time delay should you inadvertently make a change that you wish to reverse.
11. **Adaptive function:** After several days of installation and use, Adaptive function ensures that the required temperature has already been reached when the next event begins.
12. **Open window:** This function only works when room sensor or air sensor are selected. The thermostat with this function will shut off automatically for 15 minutes if it detects a sudden drop in temperature.
13. **Language:** There are four languages: English/German/Spanish/French.
- 14 & 15. **Power Set & Energy Use:** This option allows you to enter the various data used to calculate energy use. Then use this information to calculate electricity consumption.
16. **Sensor type:** This option allows floor sensor type selection if replacing a 3rd party thermostat and cannot replace the existing floor sensor. Please ensure B3950-10K is selected if using the sensor that came in the box with this thermostat.
17. **Factory Reset:** All parameters are restored to default values.

Troubleshooting

Air sensor error.

Please contact our technical team.

Floor sensor error.

Please check the floor sensor is connected correctly, refer to page 6 wiring diagram. If you are not using a floor sensor, please select Room sensor only from sensor selection menu.

Dimensions (mm)

