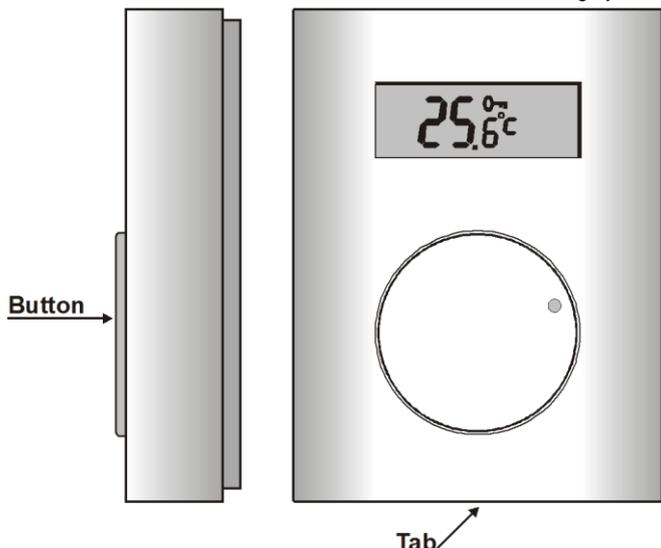


The Herz 3 F800 50/55 wireless thermostat

The Herz Herz 3 F800 50/55 thermostat can be used to set and measure the temperature in a room. Temperature adjustment can be performed very simply by turning the setting knob. This knob can be locked to avoid accidental settings (via. Thermostat menu or additional module AC-100LCD for civil building applications). It has anti-freeze protection and when combined with an wireless security system (Jablotron), the following are possible:

- Switching the heating ON and OFF remotely (by mobile phone, remote control or Internet).
- Disabling the heating when windows are open.
- Informing the user about heating faults and frost threats (if the temperature drops below a pre-configured value a warning SMS is sent).
- Informing on the occurrence of fire (when the temperature is above a pre-configured value).

The thermostat is battery-powered. The main advantage is that there is no need for a cable between the thermostat and the heating system.



Installation

The Herz Herz 3 F800 50/55 should be mounted in a dry indoor location. Choose a mounting location about 1.5 meters above the floor in an area with good air circulation. Avoid places with draughts, dead air spots and radiant heat from the sun or appliances. It should not be installed close to any metal structure or other objects that may obstruct radio signal transmissions.

1. Release the upper cover by pressing the plastic tab on the bottom side of the housing.
2. Mount the back part on to the desired location.
3. If the thermostat was purchased as a kit along with a receiving unit, connect the detector's battery (pull out the red tape to activate the battery). Otherwise see section "Mounting the receiving unit"
4. Close the thermostat.

Mounting the receiving unit

Install and connect the receiving unit to the heating system. If the receiving unit was purchased separately then the thermostat must be enrolled to it – enter enrollment mode on the receiving unit (see its manual) and connect the battery to the thermostat.

Configuring the fixed parameters

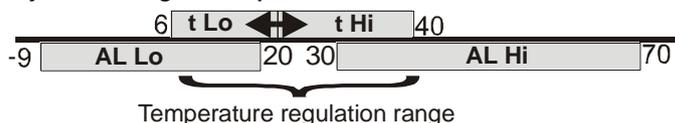
The thermostat works with the following 5 temperature thresholds: **t Hi**, **t Lo**, **ALHi**, **ALLo** (fire/freeze), **Stby**. Each of the parameters is configurable within a corresponding temperature range – see the table below.

You can enter the adjustment menu by keeping the knob pressed for 3 seconds and scrolling to appropriate menu. Scrolling the menu is done by turning the knob. The display will show temperature parameter names – see the table below. The currently displayed parameter can be adjusted by pressing the knob briefly, turning the knob until the desired temperature is displayed, and confirming the setting by re-pressing the knob. The adjustment menu is escaped from by pressing the knob while **OK** is displayed or automatically after 30 seconds. The parameter ranges are restricted according to the table.

Parameter	Adjustment range	Factory	Description
t Lo	+6°C to +40°C*	6°C	
t Hi	+6°C to +40°C*	40°C	
ALLo	-9°C to +20°C	3°C	Panic alarm
ALHi	+30°C to +70°C	60°C	Fire alarm
HYst	±1°C	0	Correction
Stby	-6°C to +17°C	6°C	

* Ranges **t Lo** and **t Hi** must not overlap

Adjustment ranges as depicted on a coordinate axis:



Temperature accuracy adjustment: The thermostat allows you to configure the hysteresis – the accuracy to which the temperature is regulated. The setting is done via the **HYst** item in the adjustment menu (proceed the same way as with threshold parameters mentioned above). Turning the knob lets you select one of the following accuracy ranges: ±0.1°C - ±1°C (the factory default setting is ±0.2°C).

Example: *If the accuracy is adjusted to ±0.5°C and the temperature is set to 24°C, the thermostat switches the heating on when the temperature drops below 23.5°C and it switches it off if the temperature goes above 24.5°C. In reality the temperature scatter can be slightly higher because of the temperature persistence of the room.*

Warning: too high an accuracy can cause the heating to turn on and off too frequently.

Instantaneous operation

- When not being handled, the thermostat shows the current temperature in the room.
- **By turning the knob the desired temperature can be set from t Lo to t Hi** (during setting, a hand symbol is shown on the display). If the temperature cannot be set, see "Locking the thermostat".

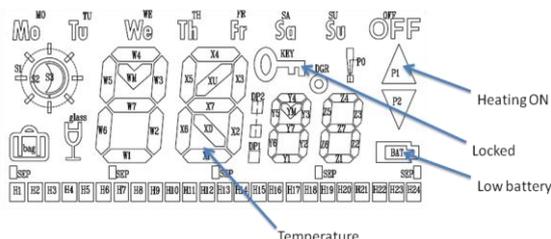
Setting the **t Lo** and **t Hi** limits allows the installer to prevent the regulated temperature from being set to undesirably high or low values by instantaneous operation.

Example: *If t Lo = +15°C and t Hi = +22°C then the regulation temperature can only be set within the range of +15 to +22°C (unless the adjustment menu is entered).*

- If you stop turning the knob the current temperature in the room will be displayed again (3 seconds after the last movement of the knob).
- If the **current temperature is lower than the desired temperature minus the hysteresis**, the thermostat will switch the heating on (a symbol of wavy lines will appear on the display).
- If the **current temperature is higher than the desired temperature plus the hysteresis**, the thermostat will switch the heating off (the symbol of wavy lines will disappear).

Displaying the set temperature

As mentioned above, normally the thermostat displays the current temperature in the room. If you want to display the set temperature, **press the knob briefly** (no matter if the thermostat is locked). The set temperature will then flash on the display for 3 seconds.



Locking the thermostat

- To prevent the accidental changing of the set temperature the thermostat can be **locked by pressing the knob a choosing LOC menu**.
- To unlock the thermostat simply **press and hold the turning knob** and enter Loc menu to OFF the lock.

Turning OFF the thermostat

- To turn OFF the thermostat press the knob and choose OFF menu and confirm ON. The thermostat in this mode does not work and save the battery life
- To re-start the thermostat press and hold the turning mode and chose OFF menu and confirm OFF

Battery replacement

Replace the battery when the low-battery symbol is displayed (or the thermostat stops working). If the thermostat is enrolled to the control panel, then a low battery will be indicated by the control panel (to the user and installer). Use only AA 1.5V alkaline batteries.

RESET

The RESET function allows you to reset the device to factory defaults listed in the table. You can perform RESET by selecting **Res** in the adjustment menu and pressing the knob and choosing the menu RES.

Specification

Power supply: 2x AA 1.5 V alkaline battery

Battery lifetime typically 1 year
Temperature measurement: +6°C to +40 °C
Temperature accuracy: adjustable: ± 0.1 , ± 0.2 or ± 0.5 °C
Freeze alarm (panic transmission) temperature threshold: <ALLo configurable from -9°C to +20°C
Fire alarm temperature threshold: >ALHi configurable from 30°C to 70°C
Operational frequency: 868.1 MHz, Flexi protocol
Operational radio range: up to 100 m (open area)
Operational temperature range: -10°C to + 70°C (low humidity)
Dimensions: 65 x 88 x 20 mm
Can be operated according to on going



Note: Dispose of batteries safely depending on battery type and local regulations. Although this product does not contain any harmful materials we suggest you return the product to the dealer or directly to the manufacturer after use.



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