HENCO

MADE IN BELGIUM

HencoLogic

Wired, cooling

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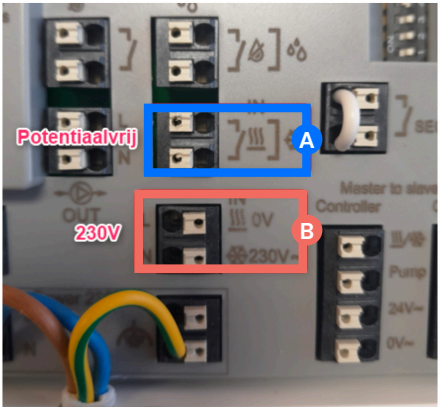
Cooling

For cooling in summer, there are **2 possible setups:**

1. The changeover is done by the **heat pump**, which then sends a signal to the **controller**.
2. The changeover is done through the **thermostat,** which then sends a signal to the **heat pump**.

Changeover via heat pump

There are 2 input contacts available on the control bar, **1 contact 230V** (B) & **1 contact potential free** (A). Both are available to be compatible with all heat pumps but it is recommended to use only 1 of the 2. Both contacts are NO (Normally Open) and, when sent, will switch the control to cooling.



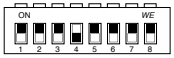
A. Potential free

B. 230 V

No settings are required to make the thermostats switch.

Changeover via thermostat

When the thermostat will make the switch between heating and cooling set **DIP switch #4** to **ON**. Remove power from the control bar, flip the DIP switch and then put power back on.

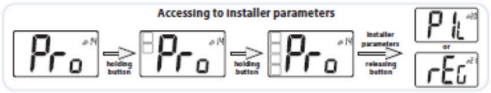


Now we need to designate which thermostat will make the switch. There can always be only 1 thermostat MASTER. In most cases, this is the thermostat in the living room.

Wake up the thermostat by briefly pressing the middle button, then hold the button down for a few seconds until you get to the selection menu. After this, press and hold the center button again for a few seconds until parameter 02 bA.5 appears. Use the + & - buttons to navigate to parameter 14 PRO. Hold the center button down for a few seconds until parameter 20 PIL appears. Confirm this parameter and change the position from SLA (slave) to MAS (master).

Professional menu

This menu permits to access to installer parameter menus. Pressing and maintaining validation key ⊙ displays first parameter of installer menus.
When validation/menu key ⊙ is hold:



Wired PiLote configuration

Using H&C or clock signal, thermostat has to be defined in slave or master configuration.
- "SLA": slave configuration
- "MAS": Master configuration

Default value: SLA Other value: MAS

If parameter 20 is not visible then the DIP switch is not set correctly.

Return to the first menu and navigate to parameter 07 NOd. Select either Rev (manual change-over) or AUT (automatic change-over) here.

Operating mode of thermostat

- Hot: heating mode
- CLd: cooling mode
- Aut: automatic mode
- Rev: displaying of reversible menu (see paragraph 5.6 "Reversible mode")

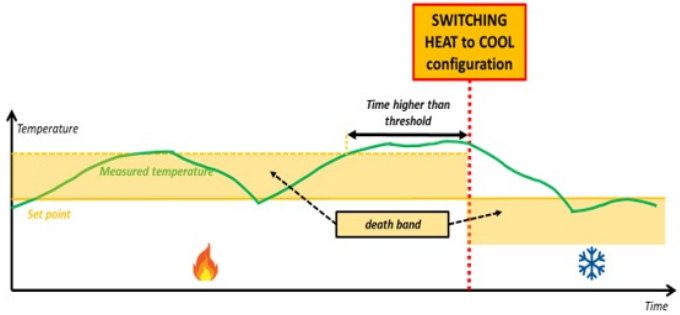
Default value: Hot Values: Hot / Cold / Aut / Rev

Manual change-over

When we select Rev option at parameter 07 NOd, a heating/cooling symbol will appear in the user menu on the right. Via this parameter the end user can choose between heating or cooling (HOT or COLD).

Automatic change-over

If we select AUT option in parameter 07 NOd, the system will automatically switch based on room temperature. When the room temperature deviates X number of degrees from the desired temperature for X number of hours, the system will switch over (see graph below).



The number of degrees difference can be set via parameter 30 HC1.

The number of hours this difference must occur before switching can be set via parameter 31 HC2 (see below).

First parameter of H&C signal: width of death band

This menu is displayed only if parameter "Mod" (#07) is equal to "Aut" or "Aut" is selected in "Reversible" mode menu.

This parameter corresponds to width of death band.

Use minus ⌄ and plus ⌃ keys to set value.

The setting is validated with validation key ⊙.

Default value: 1°C Value range: 0°C to 5°C by step of 0.5°C

Second parameter of H&C signal: time threshold

This menu is displayed only if parameter "Mod" (#07) is equal to "Aut" or "Aut" is selected in "Reversible" mode menu.

This parameter corresponds to a time threshold.

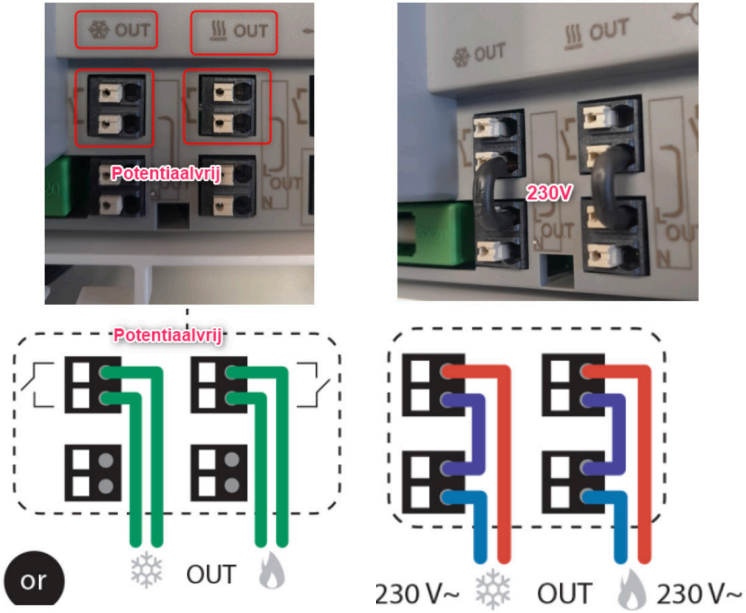
Use minus ⌄ and plus ⌃ keys to set value. The setting is validated with validation key ⊙.

Default value: 1H Other values: no, 30', 2H, 3H, 4H and 5H

Outgoing contacts

There are 2 outgoing contacts on the control bar , 1 for **heating demand** and 1 for **cooling demand**. Both contacts are potential-free NO. When there is a heating demand in 1 of the zones, the heating contact will be sent. If there is a cooling demand in one of the zones, the cooling contact will be sent.

If the contacts must be 230V, voltage can be transferred by means of a bridge (see below).



Blocking cooling

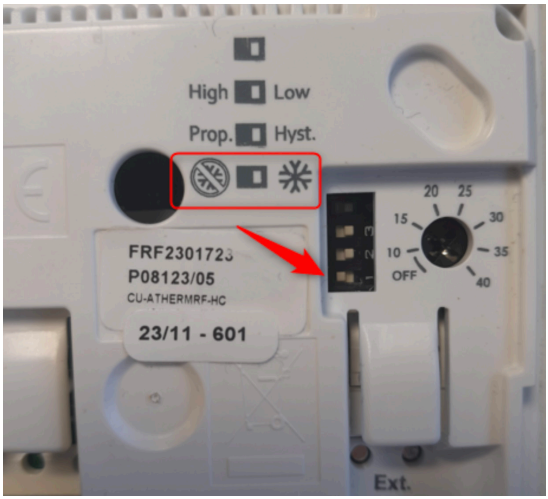
If cooling is not allowed in a certain room (e.g. in a bathroom) we can block the cooling via parameter 8 CLd.

If we have a thermostat without a display there is a DIP switch on the back of the thermostat that we can toggle.

Authorization or not of cooling mode

This parameter menu allows to enable or disable cooling in specific room like bathroom.
When the system is in cooling mode, the thermostat is switched in Off mode.

Default value: Yes Other value: no



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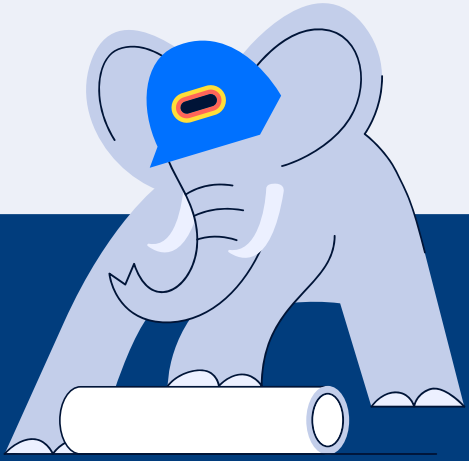
We care to connect



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