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Mod. **HIPNOS**



## User Manual

### DAILY CHRONOTHERMOSTAT WITH CURSORS

Read all instructions carefully

■ The HIPNOS wall-mounted electronic chronothermostat is an automatic control device for daily thermoregulation. It performs actions of type 1B and is suitable for environments with a pollution degree 2 and overvoltage category III (EN60730-1).

#### SAFETY INSTRUCTIONS

*During installation and operation of the product, it is necessary to comply with the following instructions:*

- 1) **The instrument must be installed by a skilled person, in strict compliance with the connection diagrams.**
- 2) **Do not power on or connect the instrument if any part of it is damaged.**
- 3) **After installation, accessibility to the connection terminals without appropriate tools must be granted.**
- 4) **The instrument must be installed and activated in compliance with current electric systems standards.**
- 5) **Before accessing the connection terminals, verify that the leads are not live.**

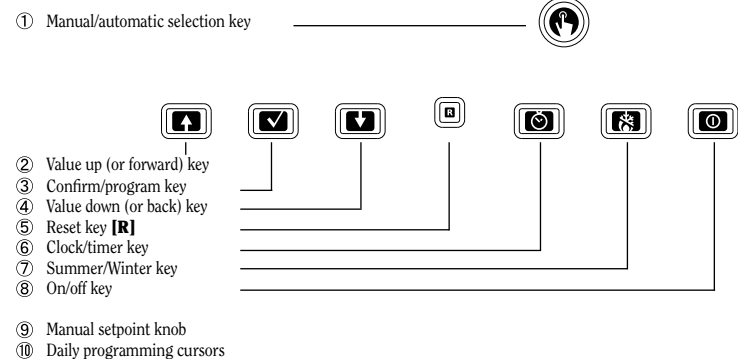
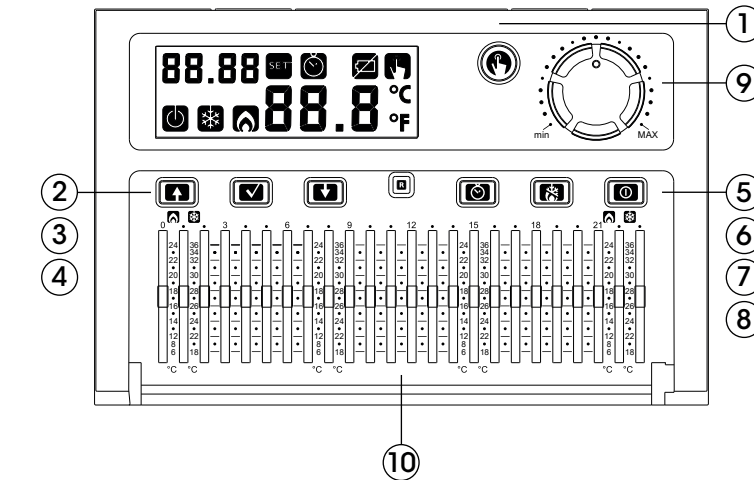
Code	Model	Description
VE013900	Hipnos	Wall-mounting daily chronothermostat - White
VE075800	Hipnos Grigio	Wall-mounting daily chronothermostat - Grey

#### TECHNICAL SPECIFICATIONS

- Power supply voltage: 2x1,5V (AA) alkaline batteries
- Battery autonomy: over two years
- Battery level indication with "dead battery" sign
- Bistable switchover relay output: maximum capacity from 5A to 250V AC under resistive charge
- "Summer" and "winter" operation modes
- Temperature adjustment type: ON/OFF with differential to be adjusted from 0,1 to 1°C
- PROPORTIONAL-type temperature control, band and period to be configured
- Resolution of temperature reading: 0,1°C
- Accuracy: ±0,5°C
- °C/°F display selection
- Temperature measurement updated every 60s
- Range of measured temperature: 0°C ÷ 50°C
- Temperature control range: 2°C ÷ 36°C
- Range of timed operation: 0 ÷ 99 hours / 0 ÷ 99 days
- Operating temperature: 0°C ÷ 50°C
- Storage temperature: -10°C ÷ 65°C
- Readings on LCD display
- Protection degree: IPXXD

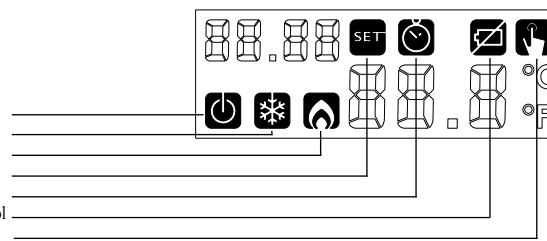
#### OPERATIONAL SPECIFICATIONS

##### CONTROLS



#### LCD DISPLAY

- OFF symbol
- Cooling symbol
- Heating symbol
- Setpoint symbol
- Timer symbol
- Battery low symbol
- Manual symbol



#### SWITCH-ON RESET AND BATTERY REPLACEMENT

- When starting the device for the first time, place the batteries (see figure C) and reset the device using the hoc [R] key. After a few seconds, the clock setup page will be displayed (see "Clock setup"). When the batteries are about to be dead the symbol will flash: actuation is not guaranteed when the batteries are not replaced. As soon as the new batteries are in place, the chronothermostat will resume operation with all the previous settings, current time included. If battery replacement took longer and the previous settings were not kept, press the reset key [R] and set up the clock again.

**Warning: incorrect battery positioning may damage the device and run down the batteries.**

- To restore the default parameter values, press the reset key [R] and the key within 3 seconds, the display will read "dEF". Default parameters are:

parameter	default
temperature control type:	ON/OFF
control band	0,5°C
period	10'
antifreeze temperature	6°C
winter differential	0,3°C
summer differential	0,3°C
operation	winter
measurement unit	°C

#### CLOCK SETUP

- To access the clock setup page push the key: the field to be modified will flash. Use keys and/or to modify the field, push the key to confirm and move on to the next field. To exit clock setup push the key again.

#### OPERATION

- When in normal operation mode, the HIPNOS thermostat periodically measures the temperature in the room in which it is installed and controls temperature based on the previously set parameters. Default temperature control is ON/OFF type, with a selectable differential. When in winter operation it is possible to select the PROPORTIONAL control mode, which follows the control band value as configured (the temperature span in which climate control is performed) and the value set for the control period (duration of the control cycle).

##### Key ① Automatic/Manual

There are two operation options: automatic (different temperatures according to the time of the day) and manual (one temperature all through the day): when in manual operation mode the symbol is lit. To switch from automatic to manual, push the key. To view the temperature control setting, press the key when in manual mode. To switch back to automatic, hold the key down for at least 3 seconds.

##### Key ⑦ Summer/Winter

It is possible to configure relay operation to command a heating or cooling unit. To select this function, push the key; to select operation, push the and/or key; to confirm and return to normal operation press the key.

##### Setpoint programming

When in automatic operation, climate control uses 15 temperature levels, depending on the position of the cursors ⑩. Temperature selection during the day uses 24 cursors; the temperature value is selected by moving the cursors along the appropriate rails until they are in the desired position. To view the temperature associated to the cursor corresponding to the current time, press the key; at this stage it is possible to schedule an actuation delay – with 15' steps – using the keys and/or. To view the temperature associated to the next cursors or change actuation delays press the key. To switch back to normal operation, press confirmation key the key.

When in manual operation mode, climate control uses one temperature level only (with different winter and summer levels), depending on the position of the manual setpoint knob ⑨. To view the temperature setpoint press key. To exit the reading or change, press the key again. When in the setpoint view or change page the symbol is lit.

**Note: while changing setpoint, temperature control and relay actuation are discontinued.**

#### SWITCH OFF

To disable climate control totally press the key and ensure that the symbol lights up. If the device is in winter operation mode, the antifreeze function is however guaranteed according to the relevant temperature setting (see "Advanced programming"). To switch the device back on, press the key again.

#### TIMED OPERATION

##### Timed automatic

When in automatic operation it is possible to schedule manual operation mode for a certain time span, after which the device will go off. To enable timed automatic operation, hold down the key for at least 3 seconds, until the delay setup page appears; adjust the delay as explained below (see "Timer programming"). When in timed automatic operation mode the key for at least 3 seconds, until the delay setup page appears; adjust the delay as explained below (see "Timer programming"). When in timed automatic operation mode the symbol is lit. To terminate timed operation quickly, enable the manual mode or off mode.

##### Timed manual operation

It is possible to schedule manual operation mode for a certain time span, after which the device will resume automatic operation. To enable timed manual operation, switch to manual operation (press the key), hold down the key for at least 3 seconds, until the delay setup page appears; adjust the delay as explained below (see "Timer programming"). When in timed manual operation, the symbols and are lit. To quickly terminate timed operation and return to automatic, hold down the key for at least 3 seconds.

##### Timed switch-off

When in automatic operation it is possible to put climate control off for a certain programmed time span, after which the device will resume the previous operation mode. To enable timed switch off, switch to off mode (press the key) and hold down the key for at least 3 seconds, until the delay setting page appears; then set up the delay as explained below (see "Timer programming"). When in timed switch-off mode the symbols and are lit. To quickly terminate timed operation and return to the previous operation mode, press the key.

##### Timer programming

To set a delay in hours (field marked "h"), use the and/or key when in the delay programming page and press the key to confirm. To set a delay in days, when the hour page appears move to the day page by pressing the key (the display will read "d" instead of "h") and proceed as explained for the hour delay. During timed operation it is possible to view and change the remaining delay: go to the relevant setup page (hold down the key for at least 3 seconds) and proceed as explained above.

**Note: timings expressed in hours expire when the last hour ends; timings expressed in days run out at midnight.**

#### MINIMUM AND MAXIMUM TEMPERATURE

- To view the maximum daily temperature press the key; to set the value to zero, hold the same key down for at least 3 seconds until three dashes appear. To view the minimum daily temperature press the key; to set the value to zero hold the same key down for at least 3 seconds until three dashes appear.

#### ADVANCED PROGRAMMING

- To access the advanced programming menu, view and configure some parameters, hold down the key for at least 3 seconds. The display will show the first page, i.e. the temperature control type. Use the and/or key to change the value assigned to the selected parameter. Press the key to confirm the change and move on to the next parameter.

##### ON-OFF/PROPORTIONAL selection

This selection is only enabled when in winter mode:  
- rEG : ON-OFF temperature control (default)  
- rEG : P: PROPORTIONAL temperature control

##### Control band and period selection

This selection is only enabled when in PROPORTIONAL temperature control type:  
- bnd: i.e. control band, varying from 0,5 to 5,0°C (default value 0,5°C)  
- PEr: i.e. control period, varying from 10' - 20' - 30' (default value 10')

##### Setting up the control differential

This selection is only enabled when in ON-OFF temperature control type:  
- dIF: i.e. control differential, varying from 0,1 to 1°C (default value 0,3°C)

##### Antifreeze temperature selection

This selection is only enabled when in winter mode:  
- dFF: Antifreeze temperature, varying from 1 to 10°C (default value 6°C)

##### °C/°F selection

To select the unit of measurement for the temperature reading:  
- dEG °C: degrees Celsius (default)  
- dEG °F: degrees Fahrenheit

##### Operation hour count

Reads the system operation hours – a 6 digit reading - (when the relay is in ON status). To zero the hour count press the key for 3 seconds

##### Battery level reading:

Reads the battery charge percentage (3-digit reading).

#### REFERENCE STANDARDS

Compliance with Community Directives  
2014/35/EU (LVD)  
2014/30/EU (EMCD)  
is declared with reference to the following harmonized standards:  
**EN 60730-2-7, EN 60730-2-9**  
**EN 61000-6-1, EN 61000-6-3**