

















## Key lock

	Press operating mode button  for 5 seconds to lock or unlock the buttons if manual key lock is configured (parameter P14 = 2). The thermostat automatically locks the buttons 10 seconds after the last adjustment if "Auto lock" is configured (P14 = 1).
	The key symbol  indicates locked buttons. Notes: The key lock cannot be released (unlocked) once the buttons were locked by the master through the Modbus command.



## Reminder to clean filters and for external faults

 <b>FIL *</b>	This message reminds you to clean your HVAC equipment filters. It is displayed after  "fan operating hours" and disappears when the thermostat is set to Protection  .
These messages inform you on external faults *:	
 <b>AL1 *</b>	 <b>AL1</b> :  .....
 <b>AL2 *</b>	 <b>AL2</b> :  .....

## Recalibrating the sensor

	If the room temperature displayed by the thermostat does not agree with the temperature effectively measured (after min 1 hour of operation), the temperature sensor can be recalibrated through parameter P05.
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## Note: Economy mode

	The energy saving setpoints are factory-set to 15 °C for heating and 30 °C for cooling. Use parameters P11 and P12 to adjust the values.
	<b>Important:</b> You can set these setpoints to <b>OFF</b> ; the thermostat then is inactive, i.e. no protective heating or cooling function. <b>Risk of frost!</b>

## Commissioning

You can adjust a number of different control parameters to adapt the thermostat to your system and optimize control performance. You can do this during operation either via the buttons on the thermostat or using a commissioning tool via Modbus.

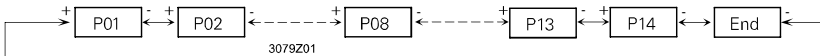
## Baud rate and parity




	The Baud rate can be adjusted to 4800 bps, 9600 bps, 19200 bps (factory setting) or 38400 bps. The Parity can be set to none, odd or even (factory setting). Your HVAC installer can set them through the additional parameters. <b>Important:</b> Once you made any changes on the baud rate or parity, you must reset the power before the changes become effective.
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\* Needs to be configured by your HVAC installer

## Control parameters

Proceed as follows to change the most important control parameters (your HVAC installer can set additional parameters):

+/-	<ol style="list-style-type: none"> <li>Press the – and + buttons simultaneously at least 3 seconds. Release, and within 2 seconds, press + again for 3 seconds. "P01" is displayed.</li> <li>Repeatedly press the + or – button to select the required parameter.</li> </ol>  <ol style="list-style-type: none"> <li>Press + and – simultaneously. The current value of the selected parameter begins to flash, allowing you to change the value by repeatedly pressing + or –.</li> <li>The next parameter is displayed when you press + and – again simultaneously.</li> <li>Repeat steps 2 to 4 to display and change additional parameters.</li> <li>Press + or – until "End" is displayed, and then press + and – simultaneously to save the change and exit parameter entry mode.</li> </ol>
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Parameter	Description	Factory setting	Setting range	Adjustment 
P01	Control sequence	2-pipe: [0...3] 1 (Cooling only) 4-pipe: [2...4] 4 (Heating & Cooling)	0 = Heating only 1 = Cooling only 2 = Manual Heating or Cooling 3 = Auto Changeover 4 = Heating & cooling	
P02	Mode selection by user via operating mode button	1 (Comfort, Protection)	1 = Comfort, Protection 2 = Comfort, Economy, Protection	
P04	Selection of °C or °F	°C	0 = °C 1 = °F	
P05	Sensor calibration	0.0 °C	-3...3 °C	
P06	Standard temperature display	0 (Room temperature)	0 = Room temperature 1 = Setpoint	
P07	Additional user information	0 (no display)	0 = No display 1 = Temperature in °C/°F 2 = Outside temperature (via bus) 3 = Time of day (12 h, via bus) 4 = Time of day (24 h, via bus)	
P08	Comfort basic setpoint	21 °C	5...40 °C	
P09	Minimum setpoint limitation in Comfort	(Wmin <sub>Comf</sub> ) 5 °C	5...40 °C	
P10	Maximum setpoint limitation in Comfort	(Wmax <sub>Comf</sub> ) 35 °C	5...40 °C	
P11	Setpoint of heating in Economy	(Wheat <sub>Eco</sub> ) 15 °C	OFF, 5 °C...Wcool <sub>Eco</sub>	
P12	Setpoint of cooling in Economy	(Wcool <sub>Eco</sub> ) 30 °C	OFF, Wheat <sub>Eco</sub> ...40 °C	
P13 ***	Electrical heater in cooling mode	ON	OFF = disabled ON = enabled	
P14	Key lock (Press operating mode button  for 5 seconds to lock or unlock the buttons)	0 (Disabled)	0 = Disabled 1 = Auto lock 2 = Manual lock	
*** Parameter P13 is only displayed for application "2-pipe with electric heater". All temperature settings are in increments of 0.5 °C.			 Please record all changes you make!	