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Creating a Heat Demand Program in HomeMatic WebUI

Programming Instructions

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1. Installation

To create a control that turns on a switch actuator when heating is required, you will need the following:

- One HomeMatic CCU2 (s.k.u. EHC-HM01);
- One HomeMatic Differential Temperature Sensor (s.k.u. EHC-HM06);
- One HomeMatic Wireless 4 Channel Switch (s.k.u. EHC-HM07).

Connect the sensors 1 and 2 of the Differential Temperature Sensor to the Flow and Return pipes of your boiler:



Then, connect the HomeMatic Wireless 4 Channel Switch to your boiler and, if needed, recirculation pump. You can connect the Switch 1 to replace the old room thermostat connectors – if in doubt, please seek professional advice from a qualified electrician.

2. Teach-In the devices (registering them with the CCU2)

First insert the batteries into the Differential Temperature Sensor housing. The sensor goes through a self-check process, during which the control LED flashed RED, then GREEN, then RED & YELLOW, then turns off. Once the light is off, the sensors are on-line.

Note: if problems are detected, the RED led will flash regularly.

Now you are ready to start the teach-in process: press Teach-In button in the Web GUI, then shortly press the sensor button: the RED & YELLOW LEDs flash quickly until connection is established, then the GREEN one flashes once to confirm connection.

Teach-in devices	
<p>BidCoS -RF (Radio)</p> <p>BidCoS-RF - Variant 1: Direct teaching-in</p> <p>Teach-in mode 58 s active Start teach-in mode</p> <p>To activate teach-in mode, click "Start teach-in mode". Teach-in mode remains activated for 60 seconds. Meanwhile, please activate the teach-in mode of the HomeMatic device you want to teach-in as well. The remaining time for teaching-in will be displayed. You will find further information in the operating manual of the corresponding devices.</p>	<p>BidCoS-RF - Variant 2: Teaching-in with serial number</p> <p>Serial number <input type="text"/></p> <p>Teach-in device</p> <p>Please enter the serial number and click on the button "Teach-in device".</p> <p>Please note: Not every BidCoS-RF device does support teaching-in via serial number.</p>
<p>BidCoS -Wired</p> <p>BidCoS-Wired - Variant 1: Automatic teaching-in</p> <p>Please start the teach-in mode directly on the device. The device will then be taught-in to the CCU automatically. Further information on the teach-in mode is provided in the respective operating instructions.</p>	<p>BidCoS-Wired - Variant 2: Search devices</p> <p>Search devices</p> <p>Please click on the button "Search devices" The CCU will then automatically teach-in all new HomeMatic Wired devices.</p>

Back **Inbox (0)**

Go to your inbox, where you will find the device (note RF id as per the device box) – press done and the device is ready for use:

Admin

Home page > Settings > Device inbox

Alarm messages (0)

Logout

Service messages (2)

Home page

Status and control

Programs and connections

Settings

Teach-in devices

Heating

Type description	Picture	Description	Serial number	Interface category	Transmission mode	Name	Function	Room	Functional test	Action	Done
<div>+</div> <div>HM-WDS30-OT2-SM</div>		HM-WDS30-OT2-SM	KEQ0102484	BidCos-RF	Standard	HM-WDS30-OT2-SM KEQ0102484	Heating		<div>Test</div> <div>OK</div> <div>--:--:--</div>	<div>Delete</div> <div>Set</div> <div>Exchange</div> <div><input type="checkbox"/> operable</div> <div><input checked="" type="checkbox"/> visible</div> <div><input type="checkbox"/> logged</div>	<div>Done</div>


Repeat the same with the Wireless 4 Channel Switch.

3. Teach-Out the devices (deregistering them with the CCU2)

In the event you need to deregister a device, proceed as follows: in WebUI, go to the device and press the "Delete" button – you will get a window like this:

Press the Delete button, and then briefly press the button of the device: the RED & YELLOW will flash quickly, then the GREEN one will flash once to confirm deletion. The device is now deleted from your system.

Delete and reset device



Do you really want to delete the device 'HM-WDS30-OT2-SM KEQ0102484'?

Delete options

Teach-out device

The device will be deleted from the HomeMatic CCU. Direct connections will be kept.

Cancel

Delete

4. Devices' functions

The Differential Temperature Sensor has the following channels / functions available:

- Temperature of sensor 1 (for example: 58.80°C);
- Temperature of sensor 2 (for example: 47.30°C);
- Differential temperature 1 -2 (for example: 11.50°C);
- Differential temperature 2 -1 (for example: -11.50°C);
- Device Interface (used by the system).

The screenshot shows the web interface for the HM-RCV-50 Bi dCoS-RF device. The top navigation bar includes 'Admin', 'Home page > Status and control > Devices', and buttons for 'Alarm messages (0)', 'Service messages (0)', 'Logout', 'Teach-in devices', and 'Help'. The main content area displays a table of device status information.

Name	Room	Function	Last update	Control
Filter	Filter	Filter		
HM-WDS30-OT2-SM KEQ0102473:1		Heating	19.09.2013 10:22:46	Temperature 58.80 °C
HM-WDS30-OT2-SM KEQ0102473:2		Heating	19.09.2013 10:22:46	Temperature 47.30 °C
HM-WDS30-OT2-SM KEQ0102473:3	Utility room	Heating	19.09.2013 10:22:46	Temperature 11.50 °C
HM-WDS30-OT2-SM KEQ0102473:4		Heating	19.09.2013 10:22:46	Temperature -11.50 °C
HM-WDS30-OT2-SM KEQ0102473:5		Heating		Temperature 0.00 °C

At the bottom, there are 'Back' and 'Reset filter' buttons.

Note: the sensors will constantly show the actual temperature of their placement.

The Wireless 4 Channel Switch has four channels available for switching ON / OFF:

The screenshot shows the web interface for the HM-RCV-50 Bi dCoS-RF device, displaying the status of the Wireless 4 Channel Switch. The top navigation bar is identical to the previous screenshot. The main content area displays a table of device status information.

Name	Room	Function	Last update	Control
Filter	Filter	Filter		
Burner Relay channel 1	Utility room	Heating	18.09.2013 22:14:54	Off On
Recirculation Pump relay ch 2	Utility room	Heating	18.09.2013 22:14:55	Off On
HM-LC-Sw4-PCB JEQ0569508:3		Light	18.09.2013 22:14:55	Off On
HM-LC-Sw4-PCB JEQ0569508:4		Light	18.09.2013 22:14:56	Off On

At the bottom, there are 'Back' and 'Reset filter' buttons.

5. Creating the Heat Demand Program in WebUI

Now you are ready to create the Heat Demand Program. Press button *Programs and Connections* → *Programs and CCU Connections* and make the following settings:

- In the IF section, when Differential Temperature Sensor – channel 3 goes to your desired value (several selections available);
- In the THEN section, select the action for the Wireless 4 Channel Switch channels 1 and 2 – in our case, if return temperature is within 7°C from the flow temperature, switch off burner and pump (i.e. no demand, water returns to boiler with same value as it left).
- In the ELSE section, select the action for the Wireless 4 Channel Switch channels 1 and 2 – in our case, if return temperature is within 7°C from the flow temperature, switch on burner and pump (i.e. there is significant drop in temperature so there is heating demand).
- Save your work by pressing OK. You can edit the program at a later time is needed.

Admin
Home page > Programs and connections > Programs > Programming

Alarm messages (0) Logout
Service messages (0)

Home page Status and control Programs and connections Settings

Teach-in devices Help

Name	Description	Condition (if...)	Activity (then..., or else...)	Action
Heat Demand Program		Channel status: HM-WDS30-OT2-SM KEQ0102473:4 when Temperature within value range less or equal 7.00° C trigger when changed	Channel selection: Burner Relay channel 1 immediately Switching status: off	<input type="checkbox"/> intrinsic

Condition: If...

Device selection HM-WDS30-OT2-SM KEQ0102473:4 when Temperature within value range less or equal 7.00° C trigger when changed

AND

OK

Activity: Then...
Stop all current delays before performing the activity (e.g. retriggering).
Device selection Burner Relay channel 1 immediately Switching status: off
Device selection Recirculation Pump relay ch 2 immediately Switching status: off

Activity: Else...
Stop all current delays before performing the activity (e.g. retriggering).
Device selection Burner Relay channel 1 immediately Switching status: on
Device selection Recirculation Pump relay ch 2 immediately Switching status: on

Set value range
Value range:
from 7.00 °C and less than 0.00 °C
more than 7.00 °C
less than 7.00 °C
more or equal 7.00 °C
less or equal 7.00 °C
Cancel OK

Device: Differential Temperature Sensor
Radio ID of the Device
Device Channel used in the Program
If clause to start the event: If temperature difference between probe 2 and probe 1 is less than 7°C, activate THEN clause

Cancel OK Save settings as new program Test script