

- Element of the PocketHome® system
- Transmitter for the PH-BP1-P9 receiver
- Detects the room temperature and sends requirement for circuit switching

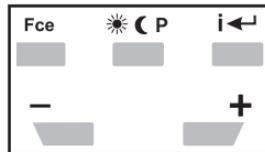
WIRELESS TRANSMITTER - THERMOSTAT FOR ZONE CONTROL OF FLOOR HEATING

DISPLAY DESCRIPTION:



- 1, indication of the preset time and temperature program
- 2, indication of the selected function AUTO, MANU, PROG, etc.
- 3, indication of anti-freeze temperature ❄️ (3°C)
- 4, indication of temperatures, comfortable ☀️, economical ☾, party P
- 5, indication of time / temperature

CONTROL ELEMENTS:



- Fce** : used for selection of functions
- ☀️ ☾ P** : selection of preset temperatures
- i ←** : information button (when pushed in the AUTO mode, it gradually shows information on the required temperature (PO:t), current hour/temperature (CL:O/tE:P), operating hours (SU:MA) and day (dE:n). confirmation button (ENTER))
- /+** for selection of functions and temperature setting

DESCRIPTION

The PH-BP1-V transmitter in connection with the 9-channel receiver PH-BP1-P9 is used for wireless control of individual rooms (zone control) in a floor heating system. There is no need to install any connecting cables between the receiver and transmitters (room thermostats)! The entire set can be included in the PocketHome® system and all zones controlled from a single point by means of a central unit and/or through a PC. In that case it is first necessary to activate the PH-BP1-V transmitter in the central unit (see Putting in operation in the PocketHome® system)!

In objects which do not necessitate central control the assembly can also work autonomously without a central unit. The PH-P1-P9 receiver can be controlled by means of up to 9 PH-BP1-V transmitters.

INSTALLATION

! Caution:

- 1) The transmitter is easily portable, yet we recommend that it be located in a suitable place where its activity will not be affected by direct flow of hot air from a heater, solar radiation or other disturbing effects. Also avoid its installation on an external wall.
- 2) Install the transmitter (indoors) as far as possible (at least 0.5 m) from big metal objects and from power lines to avoid interference of signal reception!
- 3) We recommend that the installation be done by a person adequately qualified in electrical engineering!
- 4) To prevent interference and affection of systems, every system is protected by its unique factory-saved code!
- 5) For correct communication of all elements in the PocketHome® system with the PH-CJ37 / Plus central unit, the code must be learned = every element ACTIVATED in the central unit!!!
- 6) As the entire system works at two-way radio frequency of 433.92 MHz, follow the installation and location instructions!

LOCATION AND EXCHANGE OF BATTERIES

- Lift off the back part by pushing the latch at the arrow and remove the protective paper from the batteries (at first use); thus the transmitter becomes functional.
- Necessity to exchange the batteries is indicated by the "Ba:tt" symbol flashing on the display (this information can also be directly obtained on the central unit or in the PC program (see the PH-CJ37/Plus manual).
- Always use alkaline batteries 2 x 1.5 V type AA



Dispose of used batteries in conformity with regulations for dealing with hazardous waste!

FUNCTIONS

Pushing the **Fce** button and then the \ominus/\oplus button, you can choose the following functions:

1. **AUTO** : thermostat works according to the preset program.
 2. **MANU** : used for manual setting of temperature (selection with the ***C/P** button or the \ominus/\oplus buttons; the temperature remains constant until the next change.
 3. **CL:O** : current day and time setting.
 4. **PROG** : programming mode.
 5. **PA:r** : setting of parameters (constants).
 6. **OF:F** : PH-BP1-V is switched off permanently in this mode (except for the “❄” mode).
 7. **UA:dr** : learning the unique number from the central unit / learning the code in the PH-BP1-P9 receiver
- Note: If no button is pushed within 2 minutes, the transmitter resumes the basic mode.

After long push, the \ominus/\oplus button function speeds up.

TIME SETTING - CL:O FUNCTION current time and day

- 1, Push the **Fce** button, chose the **CL:O** (clock) function with the \ominus/\oplus button, confirm with the **i↔**.
- 2, Time appears on the display and hour indication is flashing; set the desired value with the \ominus/\oplus button and confirm with the **i↔** button. Minute indication starts flashing; set the desired value with the \ominus/\oplus button and confirm with the **i↔** button again. The day value appears (d:1 Monday to d:7 Sunday); select the current day with the \ominus/\oplus button and confirm with the **i↔** button again.



PA:r1 options for data on the display

- Push the **Fce** button, chose the **PA:r** (parameters) function with the \ominus/\oplus , confirm with **i↔**.
- PA:r1 appears on the display
- Confirm with the **i↔** and with the \ominus/\oplus choose the option for displayed data in the basic mode:

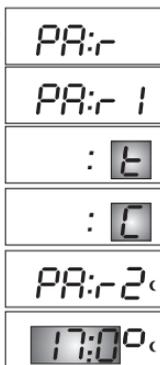
t current temperature display

C current time display

- Confirm your choice by pushing the **i↔** button again.

PA:r2 economical temperature (17°C by default) (

- PA:r2 appears on the display
- Confirm with the **i↔** button and set the economical temperature with the \ominus/\oplus button; confirm with the **i↔** button again.



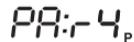
PA:r3 comfortable temperature (23°C by default)

- PA:r3 appears on the display
- Confirm with  and set the comfortable temperature \pm , confirm with  button again.



PA:r4 party temperature (25°C by default) P

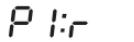
- PA:r4 appears on the display
- Confirm with  and set the party temperature \pm , confirm with  button again.



PA:r5 PI-control or hysteresis selection

- PA:r5 appears on the display
- Confirm by  button and choose with the \pm buttons
PI:r for PI control (continue with setting the PI:r1 to PI:r3 parameters)
0.1 to 5 for HYSTERESIS (choose the hysteresis within the range of 0.1°C to 5°C)
and confirm  button again.

HYSTERESIS = temperature difference between switching on/off.



PA:r6 Minimum switch-on time of the heating device at HYSTERESIS

If you choose HYSTERESIS, you must set the minimum switch-on time of the boiler in minutes at hysteresis.

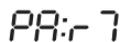
- PA:r6 appears on the display.
- Confirm by  and make a choice acc. to the heating system used with the \pm , see the table; confirm by  button.

Heating type	Minimum switch-on time of the source
electric heating	1
panel radiators	2 (3)
cast-iron radiators	4
floor heating	5



PA:r7 Summer mode

- PA:r7 appears on the display; push the  button.
 - Choose in the summer time without heating
 - Choose the mode with the \pm button; then push the  button.
- The **LE : tr** symbol and temperature/time value alternate on the display.



PI:r1 Time period of PI control

If you choose PI control in PA:r5, you must set its parameters. Choose the time period in the range of 5 to 20 minutes. Its choice is determined by the thermal inertia of the room.
The optimum setting is 10 to 15 minutes.

- PI:r1 appears on the display
- Confirm with the  and choose the time in minutes with \pm ; confirm with the .



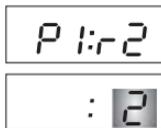
PI:r2 Minimum switch-on time of the heating device at PI control

Selected in the range of 1 to 5 min. The setting is determined by the heating medium type and depends on the selected time period of PI control.

We recommend setting according to the given table.

- PI:r2 appears on the display.
- Confirm **i**← and choose the minimum time in minutes with **-/+** , confirm with the **i**← .

Heating type	Minimum switch-on time of the source
electric heating	1
panel radiators	2 (3)
cast-iron radiators	4
floor heating	5



PI:r3 Proportionality zone at PI control

This item specifies the value at which PI control starts working. *Example: required temperature 22 °C, proportionality zone 1.5 °C. By 20.5 °C, the source is heating fully. When this value is reached, PI regulation starts working.* The PROPORTIONALITY zone can be set from 1.5 to 3.0°C.

- PI:r3 appears on the display.
- Confirm **i**← and choose the proportionality zone in °C with **-/+** , confirm with the **i**← .

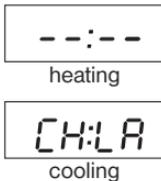


PA:r8 Selection of HEATING/COOLING mode

- PA:r8 appears on the display; push the **i**← .
- Choose the mode with the **-/+** button; then push the **i**← button.

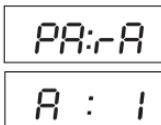
Advantageous in the summer period, when you wish the connected air-conditioning to switch on at the required temperature; in this mode, the control works inversely to the heating mode (if PA:r5=0.5 and the required temperature is 23 °C, the controller switches at the current temperature of 23.5 °C).

Note: If the PH-CJ37/Plus central unit is the higher-level device, this option is blocked.



PA:rA address setting

- PA:rA appears on the display
- This parameter is set automatically after the thermostat is activated in the PocketHome® system (see page 7).
- Push the **i**← button or **Fce** button to return to function selection.

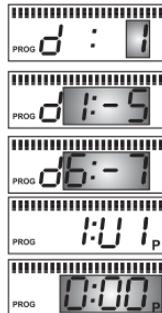


PA:r9 firmware version number / factory setting restoration

- PA:r9 appears on the display; This parameter is only informative and shows the firmware version number.
- Push the **i**← button or **Fce** button to return to function selection.
- To restore factory settings, push the ***CP** and **-** button (! all changes will be deleted!)

PROG FUNCTION program setting

- Push the **Fce** button and choose the PROG (*PROGRAMMING*) function with the **-/+** button; confirm with the **i←** button.
- With the **-/+** button, choose the date which you want to program acc. to the table
- After selection, push the **i←** button, and the 1:U1 message appears on the display to set the first time period.
- With the **-/+** button, set the time of the first change (min. step of 10 min.).
- Repeatedly pushing the ***CP** button, assign the required temperature to this time.
- Confirm with **i←** button again; the display automatically shows 1:U2 message for the second interval of the 1st day.
- Repeat the procedure until you set all time intervals (max. 6), and then exit the programming mode with the **Fce** button.
- Choose the AUTO function and the thermostat starts working according to the preset program.



d:1 Monday	d:5 Friday	d1:5 Monday to Friday
d:2 Tuesday	d:6 Saturday	d6:7 Saturday to Sunday
d:3 Wednesday	d:7 Sunday	d1:7 all week
d:4 Thursday	TABLE FOR SELECTION OF PROGRAMMED DAYS	

Thermostat state indication:

AUTO (or MANU) message on the display is LIT = connected device switched ON

AUTO (or MANU) message on the display is FLASHING = connected device switched OFF

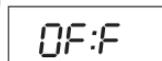
OTHER FUNCTIONS

Short-term temperature change in the AUTO mode

Push the **-/+** button in the AUTO mode; thus you can change the required temperature for a short time; the thermostat maintains this temperature until the next temperature change given by the program (in the PocketHome® system, the so-called **INDEPENDENT MODE** can also be assigned; for more, see the central unit manual).

OF:F FUNCTION permanently off

Push the **Fce** button and choose the OF:F function with the **-/+** button; confirm with the **i←** button. Thus the thermostat is permanently switched off. In this mode, the OF:F message and current temperature/time value alternate on the display. To cancel this function, push the **Fce** button and choose another mode with the **-/+** button.



“ LO:C ” FUNCTION child lock

Used for locking the keyboard, protection against undesirable handling.

Push the **Fce** button, then simultaneously ***CP** and **-** the keyboard is locked (*buttons - functionless*). The LOC (*LOCK*) message appears on the display shortly. To cancel, that means unlock, push the ***CP** and **+** buttons simultaneously.



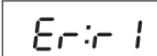
ERROR MESSAGES

If an error message appears on the display:

Er:r0 temperature sensor error (the internal temperature sensor is faulty) - CONTACT THE MANUFACTURERE IMMEDIATELY

Er:r1 signal transmission error (false signal transmission between the transmitter and receiver) - test correct connection and code learning!

If the error message repeats, we recommend that you contact the manufacturer.

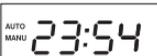
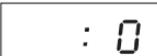


PROCEDURE OF PUTTING INTO OPERATION IN THE PocketHome® SYSTEM

1. PH-BP1-V ACTIVATION - ESTABLISHING COMMUNICATION WITH THE CENTRAL UNIT

Before activating PH-BP1-V, the central unit must be set and ready according to the PH-CJ37 / Plus manual (or SW for PC)!

- On the PH-BP1-V transmitter, push the **Fce** button and choose the **UA:dr** function for thermostat activation with the **-/+** button; confirm with the **i←**.
- The unique production number (0) appears on the display.
- Push the “**Test**” button on the central unit in the **ACTIV** mode for the given BP1 thermostat (see the PH-CJ37 manual).
- The Pa:rA address will be assigned automatically.
- Push the “**Test**” button again, and the thermostat is activated in the PockerHome® system and primarily controlled from the PH-CJ37 / Plus central unit (the AUTO+MANU message and current time/temperature appear simultaneously on the display).



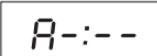
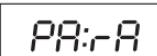
2. LEARNING THE RECEIVER CODE

Follow the PH-BP1-P9 manual.

DEACTIVATION FROM PH SYSTEM

When activated in the system in the **UA:dr** mode, every thermostat is gradually assigned an address from 1 to 255. This address cannot be changed, yet the thermostat can be deactivated from PocketHome® system.

- On the transmitter, push the **Fce** button and choose the **PA:rA** parameter setting function with the **-/+** button; confirm with the **i←** button.
- Choose the PA:rA with the **-/+** button and confirm with the **i←** button again.
- You can deactivate the thermostat with the **-/+** button if you choose the option **--:--** (instead of the address, e.g. A:1).



In the PocketHome® system, the transmitter detects current room temperature, receives information on the required temperature from the central unit, and sends requirements to the receiver according to the temperature difference. In connection with up to 9 PH-BP1-V transmitters, PH-BP1-P9 means a system for complete control of floor heating.

Advantages:

- In the PocketHome® system, central control from one point, quick overview of temperature in every room.
- Temperature control in every room.
- By request, the receiver controls the distributor thermo-valves and pump.
- The system is also able to work in autonomous mode without the central unit.
- The E-EPROM memory keeps the codes even in the case of power failure.
- Up to 30% energy saving.



CERTIFICATE OF GUARANTEE	
(guarantee period for the product amounts to 2 years)	
product No.:	date of sale:
examined by:	stamp of shop:

Technical parameters	
Power supply	2 x 1.5 V alk. baterie type AA
Communication type	two-way
Frequency	433.92 MHz
HF output	< 10 mW
Number of temp.changes	6 na každý den
Hysteresis	0.1°C to 5°C by steps of 0.1°C
Min. program. time	10 minutes
Preset temperature range	3°C to +40°C
Temperature setting	by 0.5°C
Min. indication step	0.1°C
Measurement accuracy	± 0.5°C
Protection class	IP20
Working temperature	0°C to +40°C



The guarantee period is 2 years. In the case of guarantee or post-guarantee service, send the product to the manufacturer's address.

DECLARATION OF CONFORMITY

We, ELEKTROBOCK CZ s.r.o., herewith declare that the product PH-BP1-V is in conformity with basic requirements and other corresponding provisions of the directive 1999/5/EC. Kurim 1.8.2009 on www.elbock.cz



ELEKTROBOCK CZ s.r.o.
 Blanenská 1763
 Kuřim 664 34
 Tel.: +420 541 230 216

www.elbock.cz