

THERMOSTATS AND CONTROLS



We are the Czech manufacturing company, established in 1992 in Kuřim. Since the beginning we have focused narrowly on development and sale of household consumer electronics.

The first product of the company was a contactless regulator of lighting, however the most successful product ever was a wireless doorbell.

With a gradual growth of production, demands for working space were increasing. In 2002, the company made a decision to invest in construction of its new object that would meet the actual demands. The construction was finished in autumn 2005.

By putting these new production areas into operation, the company ensured suitable conditions for high-quality, reliable and safe production meeting the current strict legislation. Thus, customers can be pleased with further expansion of the firm's production program.

Our motto is: "Reliable and quality household products at interesting sale prices."

Our main customers are mainly supermarkets and wholesale networks with wiring material.

All products in this catalogue are designed and made in our company in Czech Republic.



POWER SUPPLY



Battery



Mains



5 V adapter



OT line



Battery / mains



Adapter / mains



Baterie / OT



OT line

COMMUNICATION



Wired



Wired OT+



Wireless one-way



Wireless two-way



Wireless OT+

OUTPUT



Potential-free



Switched phase



Semiconductor



OT line

PROGRAMMING



number of time changes

number of weekly programs

number of temperature settings



Without program
1 temperature manually

REGULATION



3 °C
HYS.



PI
PID
HYS.



PI
HYS.



PWM



Witterungsgeführte
Regelung



PI

SWITCHING



Thermal



Time



Thermal and Time

REMOTE CONTROL



Bluetooth



WiFi



WiFi*

* When using the appropriate converter or GSM module



GSM*



GSM

REGIME



Heating



Cooling



Heating /
cooling



The product contains functions that comply with the Ecodesign 2000/125 / EC standard

Electronic and digital thermostats



PT01-page 6



PT02 -page 7



PT10-page 10



PT22- page 11
PT32-page 12



PT23-page13

For underfloor heating



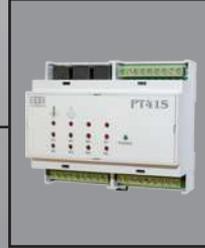
PT712-page 14-15
PT712-EI-page 14-15



PT713-page 14-15
PT713-EI-page 14-15

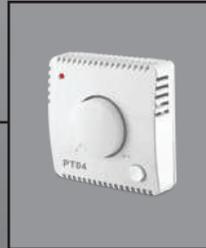


PT715-page 16
PT715-EI-page 17



PT41-S-page 52-53
PT41-M-page 52-53

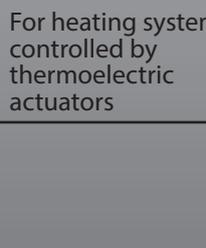
For electric heating



PT04-page 8
PT04-EI-page 9



PT14-page 18
PT14-P-page 18



For heating systems controlled by thermoelectric actuators



PT14-HT-page19
PT14-HT-P-page 19

With OT+ communic.



PT52-page21

With GSM module



PT32 GST- page 22

With WIFI module



PT32 WiFi-page 23



PT14-P WiFi-page 20

Controllers on DIN rail



RJ-page 54-56



R3V-page 57-59



R3V-A1-page 60



R3V-A2-page 61



R3V-A3-page 62

Wireless thermostats



BT010-page 24



BT012 page 25
BT013-page 26



BT102-page 27



BT22-page 28
BT32-page 30



BT23-page 29



FRT7B2-page 31

For electric heating



BT710-page 32



BT730-page 33

With OpenTherm comm.



BT52-page 38



BT52 WiFi-page 39

With GSM module
With WiFi module



BT32 GST-page 36
BT725 WiFi-page 37

Thermoel. heads



HD13-page 42-43
HD13-L-page 42-43
HD13-P-page 42-43

Thermo-switch sockets



TS01-page 44-45



TS05-page 44-45
TS10-page 44-45
TS20-page 44-45



TS30-page 46



TS11 GST-page 47



TS11 WiFi-page 48
TS11 WiFi Therm-page 49
TS11 WiFi Therm PROFI-page 50

Wireless

PT01

Order Nr.: - 0632

Electronic room thermostat with NIGHT ATTENUATION

PT01



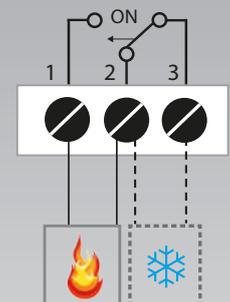
Description:

- full replacement of bimetal thermostats
- simple operation
- easy wall mounting
- getting the required temperature in range of 11-29 °C
- temperature adjustment in 1 °C increments
- anti-freeze protection (+3 °C)
- indication switching on
- low battery indicator
- TEST mod

Technical specifications

Power supply	2 x 1,5 V alk. baterries type AA
Hysteresis	0,3 °C
Number of adjustable temp.	11 to 29 °C
Step of temperature setting	by 1 °C
Measurement accuracy	±0,5 °C
Protection degree	IP20
Output (potential-free contact)	relay, max. 5 A / 250 V AC
Working temperature	0 to 40 °C
Batteries lifetime	3 years

Scheme:



Electronic pipe thermostat with ON/OFF function

PT02

Order Nr.: 0646

RELAY indication

sensor error

power indication

a screw for access to the terminal blocks



hysteresis setting
(2 to 20 °C)

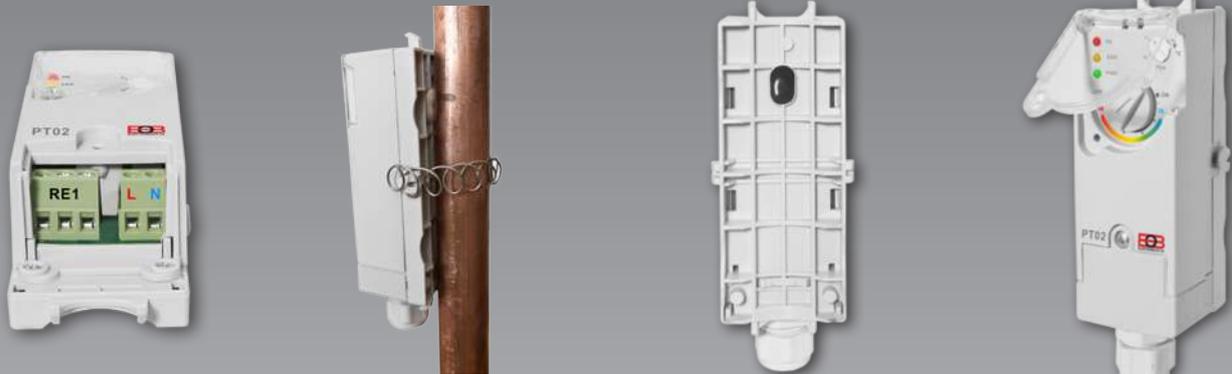
control temperature setting
(30 to 80 °C)



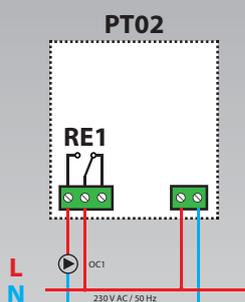
PT02

Basic parameters:

- Power supply 230 V / 50 Hz,
- Temp. setting (30 to 80 °C),
- Hysteresis setting (2 to 20 °C),
- Mode ON/OFF/AUTO,
- Anti-scale protection
- Installation direct on pipe



Scheme



Technical specifications

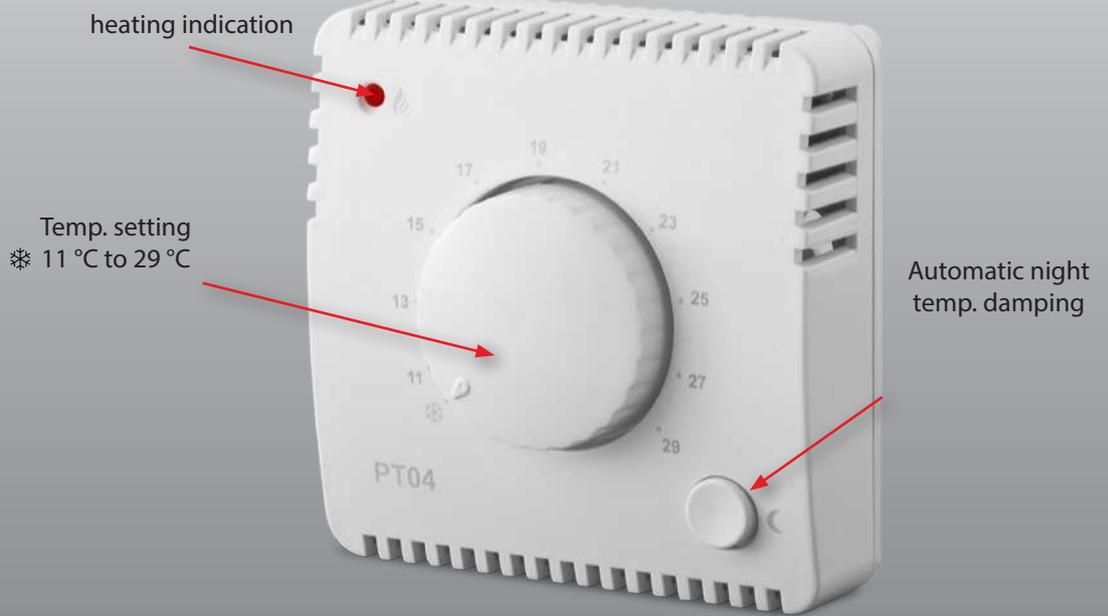
Power supply	230 V / 50 Hz
Consumption	< 1 W
Type of regulation	Hysteresis (2 to 20 °C)
Dimensions	130 x 39 x 35 mm
Protection degree	IP20
Output type	Relay (potential-free contact), switched
Max. resistive load	10 A (AC1)
Regulation range	30 to 80 °C
Working temperature	0 to 40 °C

PT04

Order Nr.: 0644

Electronic room thermostat, controlled by microprocessor.

PT04

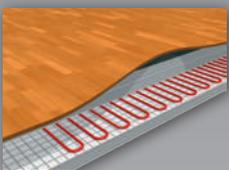


Description:

PT04 is the room thermostat designed to control heat sources powered by 230 V AC / 16 A mains. Can be used for e.g.: underfloor heating, infrared heating, etc.



Underfloor heating



Electric heating panels



Electric heating



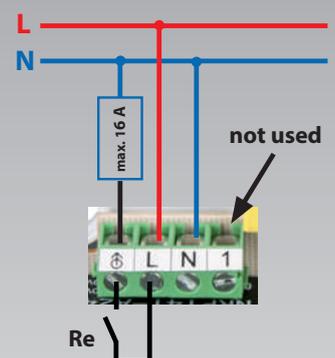
Electric heating panels



Technical specifications

Power supply	230 V / 50 Hz
Consumption	< 1 W
Output capacity	230 V AC / 16 A
Output	relay
Night dumping	3 °C / 8 hours
Temp. range	11 to 29 °C
Measurement accuracy	±1 °C
Temp. setting	0,5 °C
Type of regulation	ON / OFF

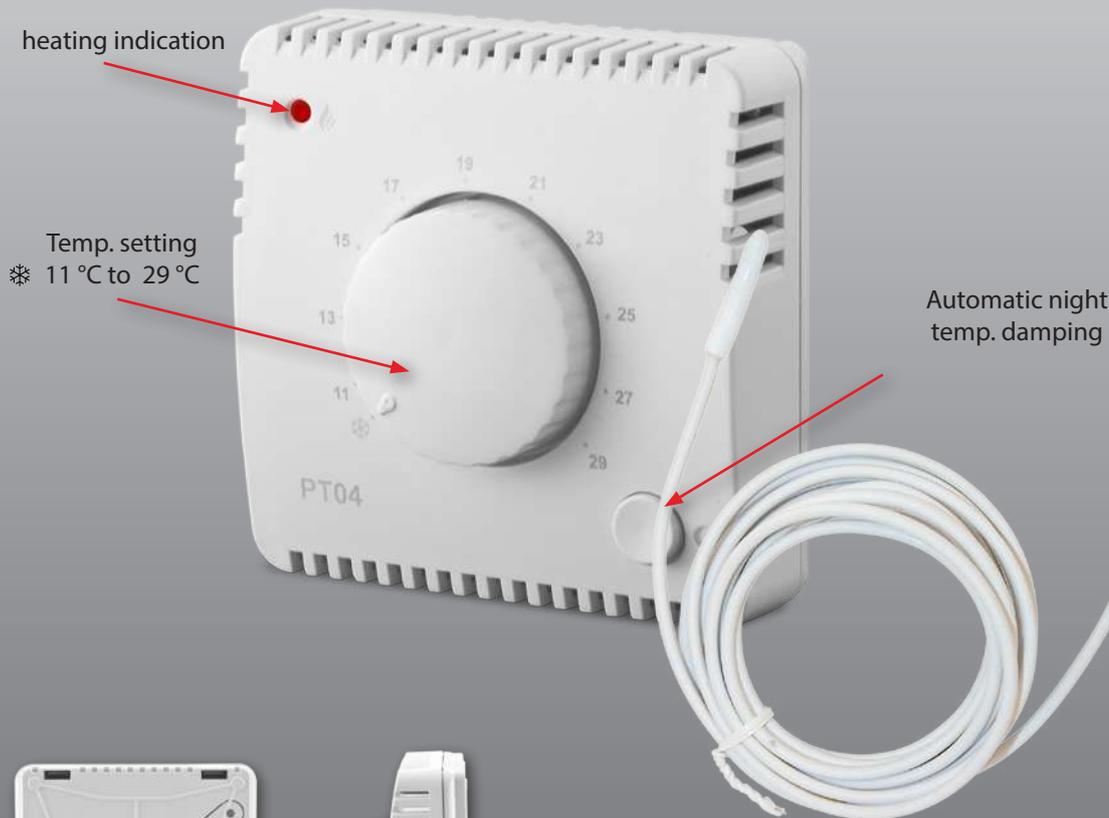
Wires connection:



Electronic room thermostat, controlled by microprocessor with external sensor.

PT04-EI

Order Nr.: - 0645



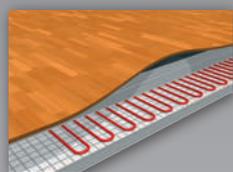
PT04-EI



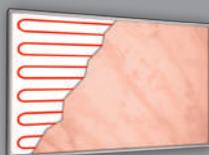
Description:

PT04 is the room thermostat designed to control heat sources powered by 230 V AC / 16 A mains. Can be used for e.g.: underfloor heating, infrared heating, etc.

Underfloor heating



Electric heating panels



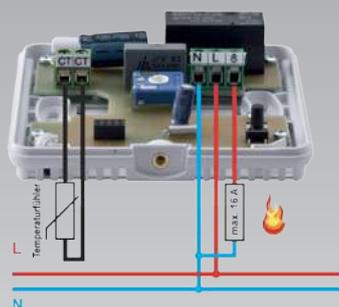
Electric heating



Electric heating panels



Wires connection:



Technical specifications

Power supply	230 V / 50 Hz
Consumption	< 1 W
Output capacity	230 V AC / 16 A
Output	relay
Night dumping	3 °C / 8 hours
Temp. range	11 to 29 °C
Measurement accuracy	±1 °C
Temp. setting	0,5 °C
Type of regulation	ON / OFF
External sensor length	1,5 m

PT10

Order Nr. - 0601

Simple programmable thermostat, fulfilling requirements on basic heating regulation.

PT10



Description:

- PT10 is digital spatial thermostat for automatic regulation of heating
- Four temperature changes for day
- Anti-freeze temperature 5°C
- Simple control
- Easy installation

Technical specifications

Power supply	2 x 1,5V alkal. batteries type AA
Number of adjustable temp.	4 temperature changes for a day
Hysteresis	0,5 °C
Minimal programming time	30 minutes
Range of possible temp.	5 to 39 °C
Step of temperature setting	by 1 °C
Minimal step of indication	0,1 °C
Measurement accuracy	±0,5 °C
Protection degree	IP20
Output (potential-free contact)	relay, max. 5 A / 250 V AC
Working temperature	0 to 40 °C

Room digital thermostat

PT22

Order Nr. - 0622



PT22

PT22 is a digital room thermostat with backlit display for automatic heating control. The main advantage of PT22 is quick change of set temperature with just one turn of the wheel button and possibility of weekly programming with 6 temperature changes per day.

Parameters of settings

Number of weekly programmes	1
Day/ week programming	✓
Number of temperature changes	6
Minimal programming time	10 min
Type of regulation	HYS.
Range of possible temp.	5 to 39 °C
Step of temperature setting	0,5 °C
Minimal step of indication	0,1 °C
Measurement accuracy	±0,5 °C
Measured temperature correction	✓
Types of modes	MANU / AUTO / OFF / HOLIDAY
Anti-freeze mode	✓
Automatic SUMMER/ WINTER time change	✓
Preliminary heating start function	✗
Summer mode	✗
Even-odd week selection	✗
Heating / cooling selection	✗
Key lock	✗
Key code protection	✗
Boiler operating hours total	✗
Boiler maintenance indication	✗
EEPROM memory	✓
Preset programm	✓

Technical specifications

Power supply	2 x 1,5 V alkal. batteries type AA
Battery lifetime	2 heating seasons
Output	relay, max. 5 A / 250 V AC
Storage temperature	0 to 40 °C
Working temperature	0 to 40 °C

PT32

Order Nr. - 0636

Room digital thermostat



PT32



PT32 is a new generation intelligent room thermostat, with large backlit display for easy operation even in the dark. The weekly program, which allows up to 6 temperature changes per day, meets the most demanding temperature control requirements. This thermostat is suitable for all boilers that require potential-free switching contacts (e.g. gas boilers, electric boilers, heating circuit pumps, thermal drives or air conditioning systems).

Parameters of settings

Number of weekly programmes	1
Day/ week programming	✓
Number of temperature changes	6
Minimal programming time	10 min
Type of regulation	HYS.
Range of possible temp.	3 to 39 °C
Step of temperature setting	0,5 °C
Minimal step of indication	0,1 °C
Measurement accuracy	±0,5 °C
Measured temperature correction	✓
Types of modes	MANU / AUTO / OFF / HOLIDAY
Anti-freeze mode	✓
Automatic SUMMER/ WINTER time change	✓
Preliminary heating start function	✓
Summer mode	✓
Even-odd week selection	✓
Heating / cooling selection	✓
Key lock	✓
Key code protection	✓
Boiler operating hours total	✓
Boiler maintenance indication	✓
EEPROM memory	✓
Preset programm	✓

Technical specifications

Power supply	2 x 1,5 V alkal. batteries type AA
Battery lifetime	2 heating seasons
Output	relay, max. 5 A / 250 V AC
Storage temperature	0 to 40 °C
Working temperature	0 to 40 °C

Room digital thermostat

PT23

Order Nr. - 0647



PT23

New thermostat with modern design. Algorithm of this thermostat is designed for controlling of gas and electric boilers for warm-water heating. Through transfer circuit breaker can control infrared heating as well. Thanks to touch buttons is easy to use.

Description:

- preset week program
- programming "day-by-day" or Mon-Fri, Sat-Sun or Mon-Sun
- big backlit graphic display
- navigation in the selected language (CZ / SK / PL / EN / DE / NL)
- adjustable HYSTERESIS
- EEPROM memory for everlasting data saving
- modes MANU / AUTO/ HOLIDAY / OFF
- sound and light indication of buttons
- anti-freeze protection 3 °C
- short-term change in the required temp.
- function for testing of right connection
- automatic SUMMER / WINTER time change
- low battery indication

Technical specifications

Power supply	2 x 1,5V alkal. batteries type AA
Number of adjustable temp.	6 temperature changes for a day
Hysteresis	0,1 to 6 °C
Minimal programming time	10 minutes
Range of possible temp.	5 to 39 °C
Step of temperature setting	by 0,5 °C
Minimal step of indication	0,1 °C
Measurement accuracy	±0,5 °C
Degree of protection	IP20
Output (potential-free contact)	relay, max. 5 A / 250 V AC
Working temperature	0 to 40 °C

PT712

Digital thermostats for electric and hot water underfloor heating

PT713

Smart thermostat with more features for regulation of underfloor heating

PT712, PT712 EI, PT713 and PT713 EI are digital thermostats with floor and space sensor designed specifically for controlling electrical floor heating (heating cables, mats, foils). It enables regulation according to the room temperature with possible floor temperature monitoring.

PT71x



PT712



PT713



“EVEN YOUR PETS SHALL APPRECIATE REGULATION OF FLOOR HEATING”



Basic model of thermostat

PT712

Order Nr.- 0615

Basic model of thermostat, with floor temperature sensor

PT712-EI

Order Nr. - 0616

Smart thermostat with some extra features

PT713

Order Nr. - 0614

Smart thermostat with floor temperature sensor

PT713-EI

Order Nr. - 0617

PT713x

Parameters of settings	PT712	PT712-EI	PT713	PT713-EI
Number of weekly programmms		2		9
Day/ week programming		✓		✓
Number of temperature changes		6		6
Minimal programming time		10 min		10 min
Type of regulation		HYS.		HYS., PI
Hysteresis		0,1 to 5 °C		0,1 to 5 °C
Minimal switch ON period		1 to 5 min		1 to 5 min
Range of possible temperature		5 to 39,5 °C		5 to 39,5 °C
Step of temperature setting		0,5 °C		0,5 °C
Minimal step of indication		0,1 °C		0,1 °C
Measurement accuracy		±0,5 °C		±0,5 °C
Measured temperature correction		✗		✓
Types of modes		MANU / AUTO / OFF / HOLIDAY		MANU / AUTO / OFF / HOLIDAY
Holiday mode		✓		✓
Anti-freeze mode		✓		✓
Automatic SUMMER/ WINTER time change		✓		✓
Preliminary heating start function		✗		✓
Open window function		✗		✓
Even-odd week selection		✗		✓
Key lock		✗		✓
Boiler operating hours total		✓		✓
EEPROM memory		✓		✓
Clock backup				
Preset programm		✗		✗
	PT712	PT712-EI	PT713	PT713-EI
External sensor included in the package	✗	✓	✗	✓
Regulation acc. internal sensor (room)	✓	✓	✓	✓
Regulation acc. external (floor) sensor	*	✓	*	✓
Combined regulation of both sensors	*		*	✓
Minimal floor temperature maintaining	*		*	✓
Monitoring of the maximum floor temperature	*	✓	*	✓
Technical specifications				
Power supply	230 V AC		230 V AC	
Input	up to 1 VA		up to 1 VA	
Output	relay max. 12 A		relay max. 12 A	
Output type	potential free		potential free	
Working temperature	0 to 40 °C		0 to 40 °C	

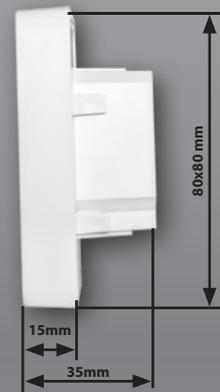
* Externer Fühler kann gesondert hinzugekauft werden, und dann verfügt der Thermostat über dieselben Funktionen wie der Typ EI

PT715

Order Nr. - 0668

New modern design for a thermostat controlling electric floor heating. Large graphic OLED display and touch buttons for convenient control.

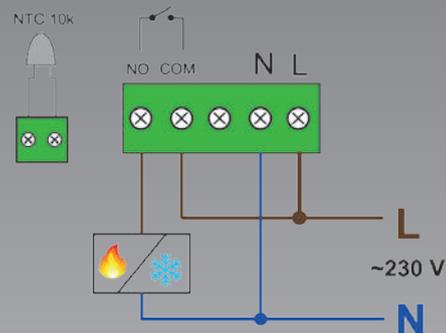
PT715



Description:

- Weekly program with 6 temperature changes per day
- Modern active organic LED display
- Hysteresis setting option
- Operating modes AUTO/MANU/OFF/HOLIDAY
- Capacitive touch sensing
- Modern design
- Setting of floor temperature limit values
- Fast change of the desired temperature
- Information on operating hours
- Child lock – key locking
- Clock backup in case of a power outage for more than 24 hours
- Simple PLUG-IN installation

Classic single-phase connection



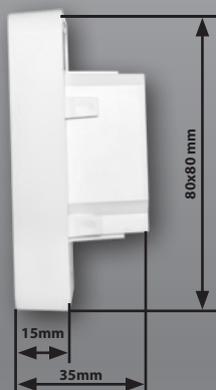
Technical specifications

Power supply	230 V / 50 Hz
Consumption	< 1 W
Number of adjustable temp.	6 temperature changes for a day
Hysteresis	0,1 to 5 °C
Minimal programming time	10 minutes
Range of possible temp.	5 to 39 °C
Temp. setting	0,5 °C
Degree of protection	IP20
Output (potential-free contact)	relay, max. 16 A / 250 V AC
Working temperature	0 to 40 °C
Clock backup	up to 24 hours

New modern design for a thermostat controlling electric floor heating. Large graphic OLED display and touch buttons for convenient control.

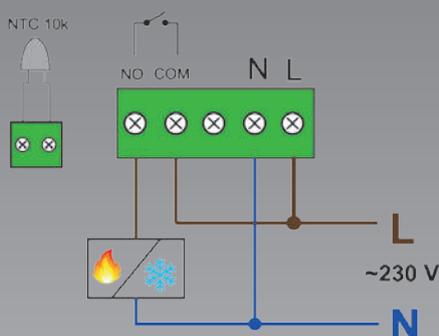
PT715-EI

Order Nr.: 0666



PT715-EI

Classic single-phase connection



Description:

- Weekly program with 6 temperature changes per day
- Modern active organic LED display
- Hysteresis setting option
- Operating modes AUTO/MANU/OFF/HOLIDAY
- Capacitive touch sensing
- Modern design
- Setting of floor temperature limit values
- Fast change of the desired temperature
- Information on operating hours
- Child lock – key locking
- Clock backup in case of a power outage for more than 24 hours
- Simple PLUG-IN installation

Technical specifications

Power supply	230 V / 50 Hz
Consumption	< 1 W
Number of adjustable temp.	6 temperature changes for a day
Hysteresis	0,1 to 5 °C
Minimal programming time	10 minutes
Range of possible temp.	5 to 39 °C
Temp. setting	0,5 °C
Degree of protection	IP20
Output (potential-free contact)	relay, max. 16 A / 250 V AC
Working temperature	0 to 40 °C
Optional connection of an ext. sensor	type CT04-10k-5
Clock backup	up to 24 hours

PT14

Order Nr.- 0623

PT14-P

Order Nr. - 0628



This digital spatial thermostat is suitable for households, family houses and offices with electric heating. It can control electric heaters, radiant heaters, infrared heaters or electric floor heating up to 16 A output.

Programable version of the thermostat

PT14



PT14

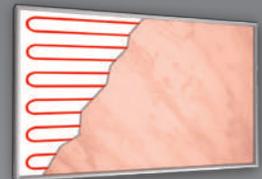
PT14-P



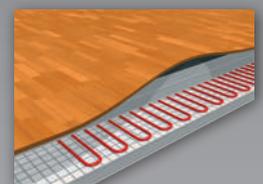
Electric heater



Infrared panel



Underfloor heating



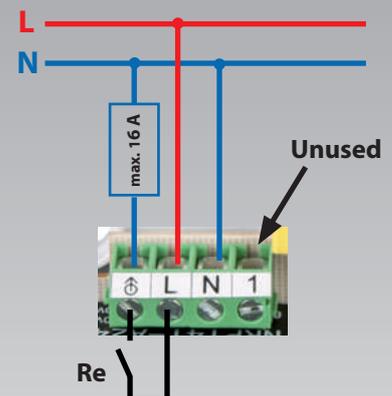
Description:

- Large backlit display
- Easy selection of economic and comfort temperature
- Simple control
- Easy installation
- Range of possible temp. 3 °C to 39 °C

Technical specifications

Power supply	230 V / 50 Hz
Input	1 VA (1 W)
Hysteresis	0,5 °C
Switching element	relay
Adjustable temperature range	3 to 39,5 °C
Temperature setting	in 0,5 °C steps
Minimal indication step	0,5 °C
Measurement accuracy	±1 °C
Degree of protection	IP20
Output (relay)	max. 16 A
Working temperature	0 to 40 °C

Example of wiring diagram



PT14-HT is a room thermostat intended for control of therмовalves NC (normally closed), which are located on radiators or distributors of warm-water floor heating.

PT14-HT

Order Nr.- 0624

Programmable version of the thermostat

PT14-HT-P

Order Nr.- 0629

PT14



PT14-HT-P

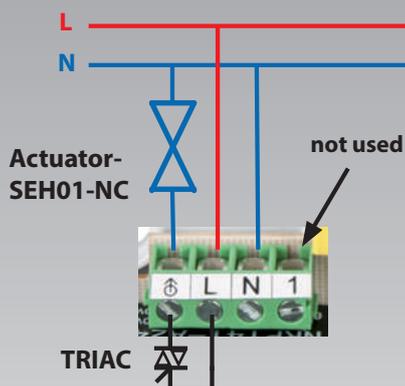


PT14-HT



Advantage is fast switching between comfort and economic temperature. The device is equipped with a semi-conductor output which emits no noise, contrary to a relay switching or motors running. The PWM (pulsewidth modulation) function increases the control quality.

Wires connection:



Technical specifications

Power supply	230 V / 50 Hz
Input	0,5 VA (0,5 W)
Switching element	triac
Protection class	II
Adjustable temperature range	5 to 39,5 °C
Temperature setting	by 0,5 °C
Minimal indication step	0,5 °C
Measurement accuracy	±1 °C
Degree of protection	IP20
Output (semiconductor)	max. 0.1 A, max. 2 pcs of actuators
Working temperature	0 to 40 °C
Regulation	PWM

PT14-P WiFi

Order No. - 0667



Room WiFi thermostat

PT14-P WiFi



Description

- Easy connection to home WI-FI network
- MANU / AUTO mode
- Timer function
- AUTO mode - according to the selected program
- In automatic mode up to 16 changes every day.
- Switching up to 16 A (3680 W)
- The set program continues even if the WiFi connection fails
- Applications for iOS, Android and Windows 10 for free download in Czech

Technical parameters

Power supply	230 V / 50 Hz
Consumption	1 W
Temperature measurement accuracy	± 2 °C
WiFi communication	802.11 b/g/n, ESP-WROOM-02D
Hysteresis	0.1 up to 6°C
Number of temperature changes	6 temperature changes per day
Minimum program time	10 minutes
Adjustable temperature range	3 up to 39 °C
Temperature settings	each 0.5 °C
Minimum indication jump	0.5 °C
Measurement accuracy	± 1°C
Switching element	max. 16A (relay)
Degree of protection	IP20
Operating temperature	0 up to 40 °C

Smart thermostat PT52 with OpenTherm (OT+) communication

PT52

Order Nr.- 0657



PT52

Description:

- Digital thermostat for controlling of boilers with OpenTherm (OT+) communication
- Large BACKLIT display and easy controlling
- Intuitive navigation in the selected language (CZ/PL/EN/DE/RU/SK)
- 9 weekly programs for central heating and with temperature changes per day
- Equitherm control with correction according room temperature
- PI regulation
- Preliminary switch-on function with adjustable start
- HOLIDAY mode
- Actual temperature correction
- Summer mode
- Automatic SUMMER/WINTER time changeover

LIST OF BOILERS, WHICH WE TESTED THE THERMOSAT WITH:

- Baxi
- Geminox
- Ferroli
- Viessmann
- Dakon
- Atak
- DeDitrich
- Quantum
- Viadrus
- Enbra
- Brilon/Intergas
- ACV/Prestige
- Brötje

Technical specifications

Power supply	direct, through communication line from boiler
Communication line	twin-lead
Polarity	without polarity
Length	up to 50 m
Min. program. time of C. H.	10 minutes
Adjustable temperature range	3 to 39 °C
Adjustable temperature range C.H.	5 to 85 °C
Min. program. time of H. W.	1 hour
Number of temperature changes	3 times changes per day
Adjustable temperature range H.W.	10 to 65 °C
Hysteresis H.W.	5 °C
Min. indication step	0,1 °C
Number of adjustable temperatures	6 temperature changes per day
Degree of protection	IP20
Working temperature	0 to 40 °C

PT32 GST

Order Nr. - 0639

Intelligent thermostat with remote control via mobile phone. A short SMS is possible for example to change the temperature or turn off the boiler.

PT32 GST



Remote control of thermostat via SMS



App PT32 GST can be download FOR FREE on Google Play



App PT32 GST can be download FOR FREE on AppStore



Remote control via Android APP and iOS



Description:

- PT32 GST is an intelligent digital room thermostat with an embedded GSM module. It is suitable for all boilers, which require potential-free (voltage free) switching contacts (e.g. gas boilers, electric - boilers, circulating pumps, thermoelectric actuators or air conditioning units).
- New PID regulation- principle consists in continuous comparison of the current room temperature with the desired temperature, and automatic adaptation of the controller to the given conditions.
- 9 weekly programs with 6 temperature changes per day
- Programming by 10 minutes and 0.5 °C
- Big backlit graphic display
- Intuitive navigation in the selected language (CZ/PL/EN/DE/RU/SK)
- Possibility of setting HYSTERESIS, PI regulation or PID regulation

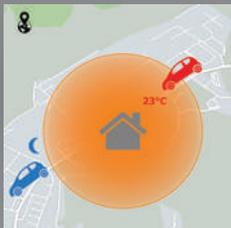
Intelligent thermostat with remote control from mobile phone, tablet or PC via WIFI.

PT32 WIFI

Order Nr. - 0642



PT32 WiFi



GEOLOCATION

From 01.10.2020, this type of thermostat is supplied with a geolocation function for automatic temperature control.

Possibility of controlling via APPS:



Can be downloaded for free on Google Play

Can be downloaded for free on AppStore



Beschreibung:

- PT32 WiFi is room digital thermostat with embedded WiFi module
- It is suitable for all boilers, which require potential-free (voltage free) switching contacts (e.g. gas boilers, electric-boilers, circulating pumps, thermoelectric actuators or air conditioning units).
- New PID regulation- principle consists in continuous comparison of the current room temperature with the desired temperature, and automatic adaptation of the controller to the given conditions.
- 9 weekly programs with 6 temperature changes per day
- Programming by 10 minutes and 0.5 °C
- Big backlit graphic display
- Intuitive navigation in the selected language (CZ/PL/EN/DE/RU/SK)
- Possibility of setting HYSTERESIS, PI regulation or PID regulation

BT010

Order Nr.- 0608

BT010 (before BPT010) is a wireless thermostat (transmitter) which, depending on the required room temperature, controls the receiver unit BT001, BT002 or BT003, which switches the connected heating device.

BT010



Description:

- quick change of the required temperature by the wheel
- night attenuation - night attenuation speed dial button (automatic decrease of 3 °C for 8 hours)
- frost protection (3 °C)

Technical specifications

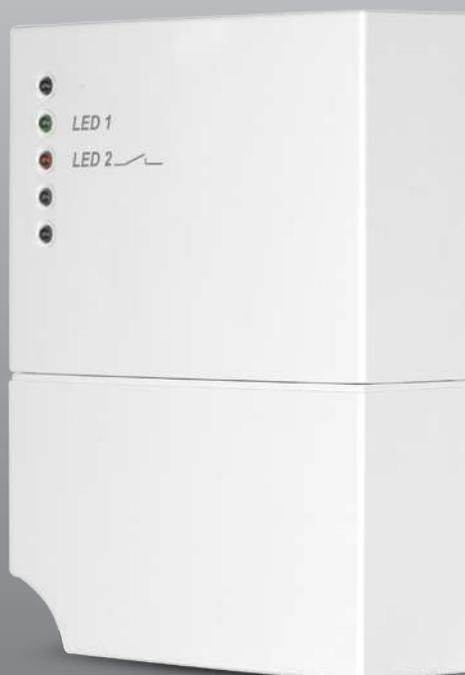
Transmitter

Power supply	2 x 1,5V alkal. batteries type AA
Communication type	TWO-WAY
Frequency	433,92 MHz
Vf power	< 10 mW
Hysteresis	0,4 °C
Temp. setting range	11 to 29 °C
Temperature setting	by 1 °C (from 11 °C)
Measurement accuracy	±1 °C
Degree of protection	IP20
Working temperature	0 to 40 °C
Night damping	3 °C for 8 hours

BT012 is a wireless thermostat with system of autodidactic codes, easy control and wall-mounted receiver.

BT012

Order. Nr.- 0603



BT012

Description:

- Automatic night temperature reduction by 3°C for 8 hours available

Technical specifications

Transmitter		Receiver	
Power supply	2 x 1,5 V alkal. batteries type AA	Power supply	230 V / 50 Hz
Communication type	TWO-WAY	Output	16 A
Frequency	433,92 MHz	Switching element	relay
Vf power	< 10 mW	Reach	25 m (in built-up area)
Hysteresis	0,4 °C	Working temperature	0 to 40 °C
Temp. setting range	11 to 29 °C		
Temperature setting	by 1 °C (od 11 °C)		
Measurement accuracy	±1 °C		
Degree of protection	IP20		
Working temperature	0 to 40 °C		
Night damping	3 °C for 8 hours		

BT013

Order. Nr. - 0613

BT013 is a wireless thermostat with system of autodidactic codes, easy control and receiver into socket

BT013



Description:

- Automatic night temperature reduction by 3°C for 8 hours available

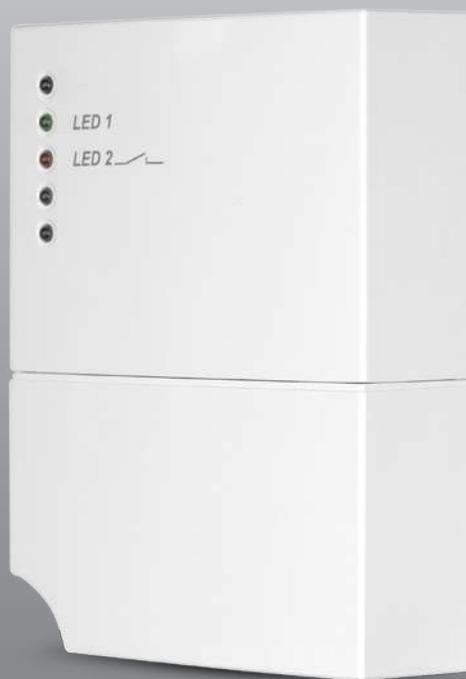
Technical specifications

Transmitter		Receiver	
Power supply	2 x 1,5 V alkal. batteries type AA	Power supply	230 V / 50 Hz
Communication type	TWO-WAY	Output	8 A
Frequency	433,92 MHz	Switching element	relay
Vf power	< 10 mW	Reach	35 m (in building)
Hysteresis	0,4 °C	Working temperature	0 to 40 °C
Temp. setting range	11 to 29 °C		
Temperature setting	by 1 °C (form 11 °C)		
Measurement accuracy	±1 °C		
Protection degree	IP20		
Working temperature	0 to 40 °C		
Night damping	3 °C for 8 hours		

Simple wireless thermostat with autodidactic learn system.

BT102

Order Nr.: 0602



BT102

Description:

- BT102 is a simple wireless thermostat with system autodidactic of codes
- Used for all types of heating at home, offices or workshops
- The advantage is the possibility of change in the reference room by simply moving the transmitting part, it is possible to achieve optimum thermal comfort in heating
- Possibility setting of 4 temperatures per day
- Power supply of receiver 230 V/ 50 Hz
- Mounted direct on installation box KU/KP68

Technical specifications

Transmitter		Receiver	
Power supply	2 x 1,5V alkal.batteries AA	Power supply	230 V / 50 Hz
Communication type	TWO-WAY	Output	16 A
Frequency	433,92 MHz	Switching element	relay
Vf power	< 10 mW	Reach	25 m (in built-up area)
Temperature changes	4 / day	Working temperature	0 to 40 °C
Temp. setting range	5 °C to 39 °C		
Temperature setting	by 1 °C		
Measurement accuracy	± 0,5 °C		
Protection degree	IP20		
Working temperature	0 to 40 °C		

BT22

Order Nr. - 0656

BT22-3-5

Order Nr. - 6791

Version with orange display and case in white colour.

Version with orange display and case in anthracite colour.

BT22



Description:

- Wireless digital thermostat with a backlit display
- It is designed for automatic control of heating systems in houses and apartment units with their own boiler
- Large backlit display on the transmitter allows control of the thermostat at night.
- Intuitive navigation in the chosen language (CZ/PL/EN/DE/RU/SK)
- 6 temperature changes for each day
- Programming by 10 minutes and 0.5 °C
- Straight-way socket in the receiver (for connecting of further device)

Technical specifications

Transmitter		Receiver	
Power supply	2x1,5 V alkal.batteries AA	Power supply	230 V / 50 Hz
Communication type	TWO-WAY	Output	8 A
Frequency	433,92 MHz	Switching element	Relay
Vf power	< 10 mW	Reach	35 m (in built-up area)
Number of set temp.	6 temperature changes	Working temperature	0 to 40 °C
Temp. setting range	5 to 39 °C		
Temperature setting	by 0,5 °C		
Measurement accuracy	± 0,5 °C		
Protection degree	IP20		
Working temperature	0 to 40 °C		

Wireless thermostat

BT23 RF

Order Nr.: - 0612

BT23 RF



Beschreibung

- Big, well-arranged and backlit display
- Preset week program
- 6 temperature changes per every day
- Programming by 10 minutes and 0.5 °C
- Programming "day-by-day" or Mon-Fri, Sat-Sun or Mon-Sun
- Adjustable HYSTERESIS (form 0,1°C to 6°C)
- Short-term change of temperature
- Manual mode (MANU)
- Permanent deactivation (OFF)
- HOLIDAY mode
- Antifreeze protection 3 °C
- Connection testing function (TEST)
- Automatic SUMMER/WINTER time changeover
- Receiver power supply 230 V / 50 Hz
- PASS-THROUGH socket on the receiver (for Connecting another appliance)
- LED indicator on the receiver
- approx. range 35 m (300 m in open areas)

Technical parameters

Transmitter		Receiver	
Power supply	2 x 1,5 V alkal.battery AA	Power supply	230 V AC / 50 Hz
Type of communication	BIDIRECTIONAL	Type of communication	BIDIRECTIONAL
Frequency	433,92 MHz	Frequency	433,92 MHz
RF power	< 10 mW	Range in built-up areas	up to 35 m
Hysteresis	0,1 up to 6 °C	Free area range	up to 300 m
Adjustable temperature range	5 up to 39 °C	Sensitivity	< -102 dBm
Temperature settings	each 0,5 °C	Output	relay max. 8 A
Measurement accuracy	±0,5 °C	Degree of protection	IP20
Degree of protection	IP20	Operating temperature	0 up to 40 °C
Operating temperature	0 up to 40 °C		

BT32

Order Nr.- 0638

BT32-3-5

Order Nr. - 0664

Version with orange display and case in white colour.

Version with orange display and case in anthracite colour.

BT32



Description:

- Wireless digital thermostat with backlit display offers a wide range of temp. control
- It is designed for automatic control of heating systems in houses and apartment units with their own boiler
- Large backlit display on the transmitter allows control of the thermostat at night
- Intuitive navigation in the chosen language (CZ/PL/EN/DE/RU/SK)
- 9 weekly programmes with 6 temperature changes per day
- Programming by 10 minutes and 0.5 °C
- **Possibility of setting PI regulation or HYSTERESIS**
- Possibility of using GSM module (GST1 or GST2) for control with mobile phone

Technical specifications

Transmitter		Receiver	
Power supply	2x1,5V alkal.batteries AA	Power supply	230 V / 50 Hz
Communication type	TWO-WAY	Output	8 A
Frequency	433,92 MHz	Switching element	relay
Vf power	< 10 mW	Reach	35 m (in built-up area)
Number of set temp.	6 temperature changes	Working temperature	0 to 40 °C
Temp. setting range	3 to 39 °C		
Temperature setting	by 0,5 °C		
Measurement accuracy	±0,5 °C		
Working temperature	0 to 40 °C		
Regulation	HYS., PID,PI		

Wireless thermostat

FRT7B2

Order Nr.: - 6703

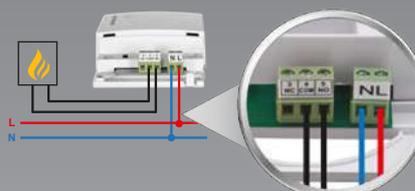
Order Nr.: - 6702



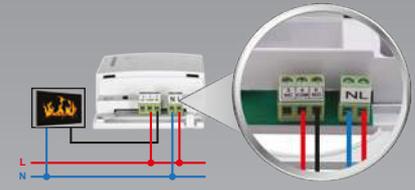
FRT7B2

Description:

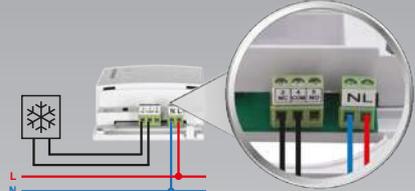
- clear backlit LCD
- 30 m range in a house
- 200 m range in an open area
- automatic daylight saving time
- modes MANU / AUTO / OFF / HOLIDAY
- temporary change of the desired temperature (PARTY)
- pre-set weekly program
- option to program per day or Mon–Fri, Sat–Sun and Mon–Sun
- 6 changes per day
- WINDOW function – decreases heating when temperature drops
- programming in 10 minute and 0.5 °C increments
- control range 5 to 39 °C
- setting option HYSTERESIS 0.1 to 6 °C
- temperature adjustment in 0.5 °C increments
- measurement accuracy ± 0.5 °C
- anti-freeze protection (3 °C)
- digital signal coding
- powered by 2 alkaline AAA 1.5 V batteries **(batteries not included)**



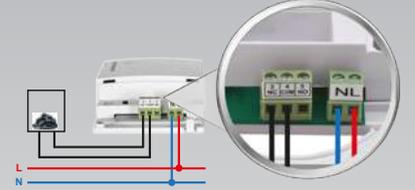
Boiler control



Electric heating control



Air-conditioning control



Solid-fuel boiler control

BT710

Order. Nr. - 6710

BT710 is a wireless thermostat (transmitter). It controls the receiver unit BT001, BT002 or BT003 according to the desired room temperature, which switches on the connected heating system. With a wireless thermostat BT710 you can control up to 9 switching elements. The elements are switched one after the other in order to avoid power surges in the network.

BT710



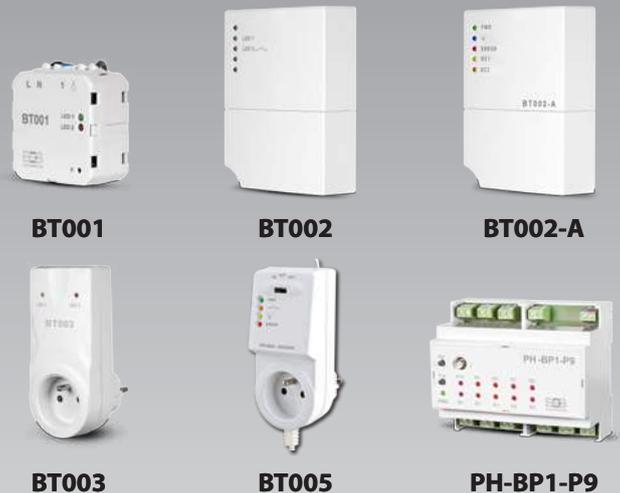
Beschreibung:

- controls up to 9 receivers BT001, BT002 (2A), BT003, BT005 or PH-BP1-P9
- 7 weekly programs with 6 temperature changes per day
- modes: AUTO / MANU / OFF / HOLIDAY
- fast change of the required temperature
- possibility to program day after day or in blocks Mon-Fri, Sat-Sun, Mon-Sun
- operating hours information
- child lock - key lock
- choice of automatic changeover to SUMMER / WINTER time
- „WINDOW OPEN“ function (automatic heating switch-off during ventilation)
- possibility to set the current temperature correction
- low battery indication
- frost protection (3 °C)

Technical specifications

Transmitter	
Power supply	2x1,5 V alkal.batteries AAA (not included)
Communication type	TWO-WAY
Frequency	433,92 MHz
Vf power	< 10 mW
Hysteresis	0,2 °C
Number of adjustable temperatures	6 temperature changes per day
Minimum program. time	10 minutes
Adjustable temp. range	5 °C to 39 °C (anti freeze 3 °C)
Temperature setting	by 0,5 °C
Minimum indication step	0,1 °C
Measurement accuracy	±0,5 °C

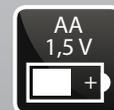
compatible receivers:



Wireless thermostat with touch buttons. With the BT730 wireless thermostat, up to 9 receivers within range can be controlled. The receivers are switched gradually, which prevents surge in the electrical network.

BT730

Order.-Nr. - 6730



BT730

Description:

- backlit display with touch buttons and press light
- controls up to 9 receivers BT001, BT002 (2A), BT003, BT005 or PH-BP1-P9
- 7 weekly programs with 6 temperature changes per day
- modes: AUTO / MANU / OFF / HOLIDAY
- fast change of the required temperature
- possibility to program day after day or in blocks Mon-Fri, Sat-Sun, Mon-Sun
- operating hours information
- child lock - key lock
- the option to change the required temperature even when the keys are locked
- choice of automatic changeover to SUMMER / WINTER time
- „WINDOW OPEN“ function (automatic heating switch-off during ventilation)
- possibility to set the current temperature correction
- low battery indication
- frost protection (3 °C)

compatible receivers:

Technische Parameter	
Sender	
Versorgung	2 x 1,5 V alkal. batterie typ AA
Kommunikationstyp	Bidirektional
Frequenz	433,92 MHz
Vf-Leistung	< 10 mW
Hysterese	0.2 bis 6 °C
Anzahl der Temperaturänderungen	6 pro Tag
Minimale Programmierzeit	10 Minuten
Temperatureinstellung	nach 0.5 °C
Messgenauigkeit	±0.5 °C
Schutzklasse	IP20
Arbeitstemperatur	0 bis 40 °C



BT001



BT002



BT002-A



BT003



BT005



PH-BP1-P9



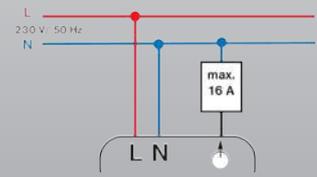
BT001

Order Nr. - 0606

It switches the connected device according to the information received from the transmitting unit. Its great advantage is direct installation into the wiring box.

BT001 is suitable for switching heating panels, direct heaters, radiant panels, heating mats, etc.

Communicate with all transmitters tagged BT.

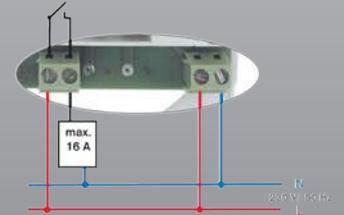


BT002

Order Nr. - 0604

It switches the connected device according to the information received from the transmitting unit. BT002 is suitable for switching heating panels, direct heaters, radiant panels, heating mats, etc.

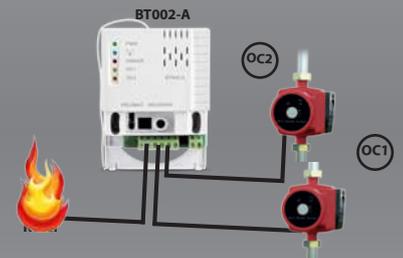
Communicate with all transmitters tagged BT.



BT002-A

Order Nr. - 0609

It controls 2 independent zones and heating source (boiler).



BT003

Order Nr.- 0607

BPT003 is used for switching the heating device in connection with the thermostats.

Communicate with all transmitters tagged BT.

The appliance connects to the switching socket in the device.





BT005

Order.-Nr.- 0519

BT005 is designed for switching a heating device in connection with thermostats.

Communicate with all transmitters tagged BT.



PH-BP1-P9

Order.-Nr. - 1320

9-channel receiver PH-BP1-P9 is used for zone control in underfloor heating system. The whole set can be included in the PocketHome system and all zones can be controlled from one place using a central unit or a PC. The set can also work completely autonomously (without a central unit).



All receivers BT00x are equipped with a code self-learning system and the E-EEPROM memory which saves the code stored even in the event of voltage failure.

Receivers are compatible with all transmitters BT serie.

For the receivers BT001, BT002 and BT003 we are preparing a VERSION 2 for you. With this new version it will be possible to activate the so-called SUMMER MODE in combination with the also newly developed thermostat BT730. In summer mode, the frost protection mode (heating in a ratio of 8:2) is then switched off permanently even if communication with the thermostat is lost. This saves you energy as unnecessary heating is prevented.

BT32 GST

Order-Nr.: 0641

A unique wireless thermostat that can be controlled remotely via SMS messages from your mobile phone.

BT32 GST



DOWNLOAD for free on Google Play

DOWNLOAD for free on AppStore



Description:

- Enable to change the required temperature or change the mode by meaning from mobile phone
- Big, well-arranged and backlit display
- 9 weekly programs
- 6 temperature changes per every day
- Possibility of setting HYSTERESIS, PI regulation or PID regulation
- Possibility of connectin an external temp. sensor
- Receiver with the CODE SELF-LEARNING system and E-EPROM memory
- Two-wire connection to the boiler (potential-free contact)

controllin via SMS with APP for Android and iOS

Steuerung mittels der Applikation für Android und iOS



Technical specifications

Transmitter		Receiver	
Power supply	5 V DC, 2,5 A, typ AD05 - Jack	Power supply	230 V / 50 Hz
GSM Module	SIM900	Output	8 A
HF performance	< 10 mW	Switching element	relay
Number of set temp.	6 per day	Reach	35 m
Hysteresis	0,1 °C to 6 °C	Working temperature	0 bis 40 °C
Min. program. time	10 minutes		
Temp. setting range	3 to 39 °C		
Temperature setting	in 0,5 °C steps		
Measurement accuracy	±0,5 °C		
Working temperature	0 to 40 °C		

Control your household heating from anywhere in the world. Via an application the controller simplifies the device settings. The thermostat remains fully functional even in the event of a Wi-Fi outage.

BT725 WIFI

Order Nr.: - 6795



BT725 WIFI

Description:

- 9 weekly programs
- 6 temperature changes per day
- programming in 10 minute and 0.5 °C increments
- option to program per day or Mon–Fri, Sat–Sun and Mon–Sun
- portable battery transmitter
- setting options **HYSTERESIS**, **PI control** or **PID control**
- early heating activation function
- mode selection HEATING / COOLING
- temporary change of the desired temperature
- manual mode (MANU)
- permanent deactivation (OFF)
- **HOLIDAY** mode
- summer mode
- even/odd week selection
- correction of current temperature
- key lock
- boiler maintenance indication
- anti-freeze protection (3 °C)
- **TEST** function
- daylight saving time selection
- boiler output on the receiver (potential-free contact)
- max. 8 A / 250 V AC

FREE app for Android
Windows 10



FREE app for Android iOS



FREE app for Android



BT52

Order Nr.: - 6652

Digital wireless thermostat with
OT+ communication and receiver with LED indication.

BT52



- The possibility of placing the thermostat (transmitter) as needed.
- Anticipating system (intelligent timer) guarantees the required temperature at the desired time.
- Adaptive controller evaluates temperature gradient room and is able to determine the time necessary to achieve the desired temperature.
- Choice of type of regulation: equitherm control, equitherm control with correction according to room temperature, PI regulation.
- 9 weekly programs for central heating (with 6 temperature changes per day).
- 1 weekly program for hot domestic water (with 3 temperature changes per day).
- E-EPROM memory retains all settings even during power outages.
- Can be controlled via GSM module GST1 or GST2 (commercially available).
- Automatic switching to summer/winter time.

LIST OF BOILERS WE TESTED WITH THE THERMOSTAT

- Baxi
- Geminox
- Ferroli
- Viessmann
- Dakon
- Atak
- DeDitrich
- Quantum
- Viadrus
- Enbra
- Brilon/Intergas
- ACV/Prestige
- Brötje

Technical specifications

Transmitter		Receiver	
Power supply	2x1,5 V alkal.batteries AA	Power supply	directly via comm. line OT from boiler
Communication type	TWO-WAY	Communication line	twin-lead, without polarity, max. 50 m
Frequency	433,92 MHz	Degree of protection	IP20
Vf power	< 10 mW	Operating temperature	0 to 40 °C
Number of set temp.	6 temperature changes		
Temp. setting range	3 to 39 °C		
Temperature setting	by 0,5 °C		
Measurement accuracy	±0,5 °C		
Protection degree	IP20		
Working temperature	0 to 40 °C		

Wireless OpenTherm thermostat with WiFi module

BT52 WiFi

Order Nr.: 0665



BT52 WiFi

- 5V DC OT+
- WiFi OT+
- OT+
- 9x
- PI
- 2,4 GHz

Beschreibung:

- 9 weekly programs
- 6 temperature changes per day
- programming after 10 minutes and 0.5 °C
- possibility of programming by day or Mon-Fri, Sat-Sun and Mon-Sun
- large clear backlit graphic display
- possibility to set Equithermal or PI regulation
- premature heating on function
- short-term change in the required temperature
- manual mode (MANU)
- permanent OFF
- HOLIDAY mode
- summer mode
- even-odd week option
- key lock
- sum of operating hours of the boiler
- boiler maintenance indication
- frost protection (3 °C)
- TEST function
- option to change SUMMER / WINTER time
- service password

LIST OF BOILERS WE TESTED WITH THE THERMOSTAT

- Baxi
- Geminox
- Ferroli
- Viessmann
- Dakon
- Atak
- DeDitrich
- Quantum
- Viadrus
- Enbra
- Brilon/Intergas
- ACV/Prestige
- Brötje

Technical specifications

Transmitter		Receiver	
Power supply	5V / DC, 2,5 A	Power supply	OT communication line from the boiler
Communication type	BIDIRECTIONAL	Communication line	twin-lead, without polarity,
Frequency	433,92 MHz	Degree of protection	IP20
Vf power	< 10 mW	Operating temperature	0 to 40 °C
Number of set temp.	6 temperature changes		
Adjustable temperature range	3 to 39 °C		
Temperature setting	by 0,5 °C		
Measurement accuracy	±0,5 °C		
Protection degree	IP20		
Working temperature	0 to 40 °C		
Range	200m (open area), 25m		

WIRED PT01 PT04 PT04-EI PT10 PT14 PT14-HT PT22 PT23 PT32 PT52 PT712 PT713 PT715 PT715-EI

	PT01	PT04 PT04-EI	PT10	PT14 PT14-HT	PT22 PT23	PT32	PT52	PT712	PT713	PT715 PT715-EI
Type of regulation	ON / OFF	ON / OFF	ON / OFF	ON / OFF	ON / OFF	ON / OFF	OT+	ON / OFF	ON / OFF	ON / OFF
Output	relay potential-free	relay 230 V AC / 16 A	relay potential-free	relay 230 V AC / 16 A	relay potential-free	relay potential-free	data	relay potential-free	relay potential-free	relay potential-free
Equitherm regulation	✗	✗	✗	✗	✗	✗	✓	✗	✗	✗
Regulation type	HYS.	HYS.	HYS.	PWM	HYS.	HYS., PID, PI	PI / Eqv.	HYS.	HYS. / PI	HYS.
Power supply	2 x 1,5 V AA	230 V / 50 Hz	2 x 1,5 V AA	230 V / 50 Hz	2 x 1,5 V AA	2 x 1,5 V AA	OT LINE	230 V / 50 Hz	230 V / 50 Hz	230 V / 50 Hz
Preliminary switch on	✗	✗	✗	✗	✗	✓	✓	✗	✓	✗
Hysteresis	0,3 °C	0,3 °C	0,1 °C	0,3 °C	0,1 °C - 6 °C	0,1 °C - 6 °C	5 °C pro domestic water	0,1 °C - 5 °C	0,1 °C - 5 °C	0,1 °C - 5 °C
Temperature range	11 °C to 29 °C	9 °C to 29 °C	5 °C to 39 °C	3 °C to 39,5 °C	3 °C to 39 °C	3 °C to 39 °C	3 °C - 99 °C	5 °C - 39,5 °C / 99 °C	5 °C - 39,5 °C / 99 °C	5 °C - 39,5 °C / 99 °C
Minimal indication	✗	✗	0,5 °C	0,1 °C	0,1 °C	0,1 °C	0,1 °C	0,1 °C	0,1 °C	0,1 °C
Min. programmable time	✗	✗	30 min.	✗	10 min.	10 min.	10 min.	10 min.	10 min.	10 min.
Measurement accuracy	±0,5 °C	±1 °C	±0,5 °C	±1 °C	±0,5 °C	±0,5 °C	±0,5 °C	±0,5 °C	±0,5 °C	±0,5 °C
Temperature correction	✗	✗	✗	✗	✗	✓	✓	✗	✓	✓
Temperature changes/day	✗	✗	4	0	6	6	6	6	6	6
Programm	✗	✗	daily / weekly	✗	daily / weekly	daily / weekly	daily / weekly	daily / weekly	daily / weekly	daily / weekly
Temperature count	1	1	2	1	6	6	6	6	6	6
Copying of days by programming	✗	✗	✓	✗	✓	✓	✓	✓	✓	✓
Holiday mode	✗	✗	✗	✗	✓	✓	✓	✓	✓	✓
Short time temperature change	✗	✗	✓	✗	✓	✓	✓	✓	✓	✓
Aut. change winter / summer time	✗	✗	✗	✗	✓	✓	✓	✓	✓	✓
Even / odd week change	✗	✗	✗	✗	✓	✓	✓	✗	✓	✗
Calendar	✗	✗	✗	✗	✓	✓	✓	✓	✓	✓
Boiler maintenance-indication	✗	✗	✗	✗	✓	✓	✓	✗	✗	✗
Data backup by battery change	✗	-	about 20 s	✗	∞	∞	∞	∞	∞	∞
EEPROM memory permanent backup	✗	-	✗	✗	✓	✓	✓	✓	✓	✓
Possibility of connection of external sensor	✗	only by version PT04-EI	✗	✓	✗	✗	✗	✓	✓	only by version-EI
Backlit LCD	✗	✗	✗	✓	✓	✓	✓	✓	✓	✓

	BT102	BT1012	BT1013	BT22	BT23 RF	BT32	BT52	BT710	BT730
Receiver									
Power supply	230V / 50 Hz ≤95 dBm	230V / 50 Hz ≤95 dBm	230V / 50 Hz ≤95 dBm	230V / 50 Hz ≤102 dBm	230V / 50 Hz ≤102 dBm	230V / 50 Hz ≤102 dBm	OT+	230V / 50 Hz ≤95 dBm	230V / 50 Hz ≤95 dBm
Sensitivity	~ 30 m	~ 30 m	~ 30 m	~ 35 m	~ 35 m	~ 35 m	~ 35 m	~ 30 m	~ 30 m
Output	16 A / 250V AC	16 A / 250V AC	8 A / 250V AC	8 A / 250V AC	8 A / 250V AC	8 A / 250V AC	Datový	16 A / 250V AC	16 A / 250V AC
Transmitter									
Power supply	alkaline batteries 2 x 1,5V AA	alkaline batteries 2 x 1,5V AA	alkaline batteries 2 x 1,5V AA	alkaline batteries 2 x bbt1,5 V AA	alkaline batteries 2 x 1,5V AAA	alkaline batteries 2 x 1,5V AAA			
Batteries included in the package	NO	YES	YES	YES	YES	YES	YES	NO	NO
Backlit display	✗	✗	✗	✓	✓	✓	✓	✓	✓
Temperature changes/day	2	-	-	6	6	6	6	6	6
Type of communication	TWO-WAY	TWO-WAY	TWO-WAY	TWO-WAY	TWO-WAY	TWO-WAY	TWO-WAY	TWO-WAY	TWO-WAY
Frequency 433,92 MHz	< 10 mW	< 10 mW	< 10 mW	< 10 mW	< 10 mW	< 10 mW	< 10 mW	< 10 mW	< 10 mW
Vf performance	✗	✗	✗	✗	✗	✗	✓	✗	✗
PI regulation	✗	✗	✗	✗	✗	✗	✓	✗	✗
Preliminary switch on	✗	✗	✗	✗	✗	✗	✓	✗	✗
Equitherme regulation	✗	✗	✗	✗	✗	✗	✓	✗	✗
Hysteresis	0,5 °C	0,4 °C	0,4 °C	0,1 °C ~ 6 °C	0,1 °C ~ 6 °C	0,1 °C ~ 6 °C	5 °C pro TUV	0,2 °C	0,2 °C ~ 6 °C
Temperature range	5 °C ~ 39 °C	11 °C - 29 °C	11 °C - 29 °C	5 °C - 39 °C	5 °C - 39 °C	3 °C - 39 °C	3 °C - 39 °C	5 °C - 39 °C	5 °C - 39 °C
Minimal indication step	0,1 °C	✗	✗	0,1 °C	0,1 °C	0,1 °C	0,1 °C	0,1 °C	0,1 °C
Min. programming time	30 min	✗	✗	10 min	10 min	10 min	10 min	10 min	10 min
Measurement accuracy	±0,5 °C	±1 °C	±1 °C	±0,5 °C	±0,5 °C	±0,5 °C	±0,5 °C	±0,5 °C	±0,5 °C
Copying of days	✓	✗	✗	✓	✓	✓	✓	✓	✓
Holiday mode	✗	✗	✗	✓	✓	✓	✓	✓	✓
Short term temperature change	✓	✗	✗	✓	✓	✓	✓	✓	✓
Aut. change summer/winter time	✗	✗	✗	✓	✓	✓	✓	✓	✓
Odd / even week setting	✗	✗	✗	✗	✗	✗	✓	✗	✗
Calendar	✗	✗	✗	✓	✓	✓	✓	✓	✓
Boiler maintenance indication	✗	✗	✗	✗	✗	✗	✓	✗	✗
Data back by power failure	about 25 s	✗	✗	✓	✓	✓	✓	✓	✓
Possibility of ext. sensor	✗	✗	✗	✗	✗	✗	✓	✗	✗
Possibility of GSM module	✗	✗	✗	✗	✗	✗	✓	✗	✗

wireless

HD13

Digital radiator head

The new thermostatic heads with a large backlit* LCD are intended for temperature regulation in rooms with the hot water radiator system. New and improved functions of this product, such as the preset program, 8 programmable temperature changes every day, indication of an opened window, Boost function and freeze protection, result in a perfect tool for heating regulation at a favourable price.

**Backlit LCD only for HD13-L and HD13-Profi*

HD13

This head is manufactured in three versions that differ from each other in a backlit LCD and functions:

HD13

Order Nr.: - 0163

HD13-L

Order Nr.: - 0174

HD13-Profi

Order Nr.: - 0175



In developing the new HD13 digital head, we considered all the customers' experience and requirements we obtained during production and sales of previous versions HD10 and HD20. The new HD13 head has a large backlit LCD with a greater number of display segments. The LCD alternates data giving information on current regulation status, such as required temperature, opening percentage and time. This head is currently the smallest one on market and thus it does not take too much space at a radiator. Suitable location of the LCD and controls enables easier control.

Thus, when watching or adjusting the head, you don't have to go down to the head, or use a mirror as in case of other types. The head is equipped, as the previous types, with a quick-removable cover you appreciate for example during replacement of batteries. However, the special attention was paid to noise of a transmission mechanism. The motor mounting in a silentblock reduces noise to the lowest possible level.

TECHNICAL SPECIFICATIONS	HD13	HD13-L	HD13-PROFI
Backlit display	✗	✓	✓
For each day a different temperature program	✓	✓	✓
Temperature levels	2	2	6
Temperature changes per day	8	8	6
Minimal programming time	30 minutes	30 minutes	10 minutes
Temp. setting range	3 °C to 39 °C	3 °C to 39 °C	3 °C to 39 °C
Min. indicative leap	0.1 °C	0.1 °C	0.1 °C
Setting temperautre	0.5 °C	0.5 °C	0.5 °C
Setting temperautre	✓	✓	✓
Short-term change of temperature	✓	✓	✓
Valve opening indication in %	✓	✓	✓
Function OFF	✓	✓	✓
Function BOOST*	✓	✓	✓
Protection against lime (ASS)	✓	✓	✓
Autommatic change summer/winter time	✓	✓	✓
Frost protection	✓	✓	✓
Open window function	✓	✓	✓
Adjustable parameters in Open window function	✗	✗	✓
Low battery indication	✓	✓	✓
Manual controlling of valve	✓	✓	✓
Backup of time by battery change	✓ 15 s	✓ 15 s	✓ 15 s
EEPROM memory	✗	✗	✓
Preliminary heating start function	✗	✗	✓
Key lock	✗	✗	✓
External sensor connector	✗	✗	✓
Connector for external power supply	✗	✗	✓
Summer mode	✓	✓	✓
Connecting nut	plastic	plastic	metal
Consumption	10 µA emergency stand 30 mA by activ motor	10 µA emergency stand 30 mA by activ motor	10 µA emergency stand 30 mA by activ motor
Delivered batteries	2 x 1,5 V AA alkalic	2 x 1,5 V AA alkalic	2 x 1,5 V AA Lithium



**HD13
HD13-L**



HD13-P



*BOOST Function - after activaton the valve will be open for 100 % for 5 minutes.

Reduction:

HD13 are designed to be mounted on standard valves M30x1,5mm. For other types of valves we produce following reductions.



Herz



Myjava



Giacomoni



Coterm



Danfoss



Danfoss RTD

TS

TS01

Order Nr.: - 0154

TS05

Order Nr.: - 0170

TS10

Order Nr.: - 0151

TS20

Order Nr.: - 0150

Thermo switch sockets

There are produced four versions with different features.



TS01

TS05



TS10



TS20



TS01



TS05

TS10



TS20



TS01

TS05

TS10



TS20



Advantages of TS20:

- for every day can be the other programme
- three temperature levels (comfort, economic, party)
- adjustable HYSTERESIS (from 0,1°C to 6°C)
- easy controlling and programing
- short-term change of temperature
- function OFF
- regulation by 0,5°C
- well-arranged display
- back-up battery

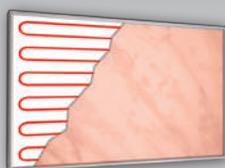


TS

Settings specificatons	TS01	TS05	TS10	TS20
For each day different program	✗	✗	✓	✓
Temperature levels	-	-	2	3
Changes per day	-	-	4	6
Min. programming time	-	-	30 minutes	10 minutes
Adjustable range	11 °C to 29 °C	3 °C to 40 °C	3 °C to 40 °C	3 °C to 40 °C
Min. indicative leap	-	0,5 °C	0,1 °C	0,1 °C
Measurement accuracy	1 °C	0,5 °C	0,5 °C	0,5 °C
Hysteresis	0,3 °C	0,5 °C	0,5 °C	0,1 °C to 6 °C
Type of regulation	ON / OFF	ON / OFF	ON / OFF	ON / OFF
Open window function	✗	✗	✓	✓
Preliminary heating start function	✗	✗	✗	✓
Function OFF	✓	✓	✓	✓
Frost protection	✗	✗	✓	✓
Short-term change of temperature	✗	✗	✓	✓
Low battery indication	✗	✗	✓	✓
Key lock	✗	✗	✓	✓
Temperature setting	1 °C	0,5 °C	0,5 °C	0,5 °C
Saving of setting	✗	✗	everlasting(E-EPROM)	everlasting(E-EPROM)
Backup battery	✗	✗		

Technical specifications	TS01	TS05	TS10	TS20
Power supply	230 V / 50 Hz	230 V / 50 Hz	230 V / 50 Hz	230 V / 50 Hz
Consumption	< 0,5 VA	< 0,5 VA	< 0,5 VA	< 0,5 VA
Output	relay	relay	relay	relay
Max. load	max. 16 A	max. 16 A	max. 16 A	max. 16 A
Backup battery	-	-	NiMh 2,4 V / 40 mAh	NiMh 2,4 V / 80 mAh
Protection degree	IP20	IP20	IP20	IP20
Working temperature	0 °C to 40 °C	0 °C to 40 °C	0 °C to 40 °C	0 °C to 40 °C

Electric heating panel



Direct heating body



Towel drier



Infrared panel





TS30

Order Nr.: - 0158

TS30



Description:

- large backlit display
- a different temperature program for each day
- possibility to set 6 temperature levels
- possibility of short-term change of program temperature
- BOOST function, for quick switching on
- holiday mode
- choice of PI control or hysteresis
- measurement of total consumption
- autom. shutdown in case of sudden drop in room temperature - WINDOW
- HEATING / COOLING mode
- key lock with code
- choice of cars. summer / winter time changes
- frost protection (optional)
- temperature control after 0.5 °C
- E-EPROM memory and time run backup for min. 24h

Technical parameters

Power supply	230 V / 50 Hz
Number of adjustable temperatures	6 temperature changes per day
Minimum programming time	10 minutes
Adjustable temperature range	5 up to 39 °C
Temperature settings	each 0,5 °C
Minimum indication jump	0,1 °C
Measurement accuracy	± 1 °C
Frost protection	yes (adjustable)
Time backup	yes (24 hours)
Protection degree	IP20
Output (potential-free contact)	relay, max. 16 A / 250 V AC
Operating temperature	0 up to 40 °C



GSM socket for remote control via mobile phone

TS11 GST

Order Nr.: 0172

TS11 GST is used to control appliances using short SMS or dialing from a mobile phone. GSM socket has an input for temperature sensor or potential-free contact. The GSM socket is also built-in microphone for wiretapping.



TS11 GST



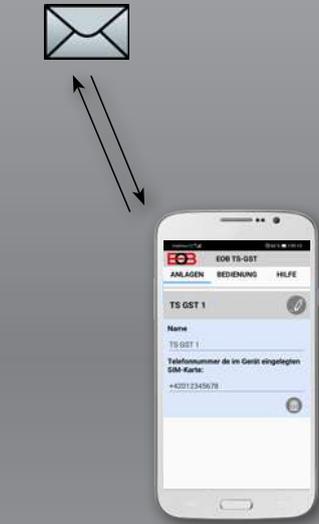
1 x CT06 - 10K - included



1 x CT11 - Jack-vacuole- included



Remote control of thermostat via SMS



Remote control via Android APP and iOS

Description:

- Automatically sends SMS when temperature thresholds are exceeded the measured at input
- Rings on one telephone number for exceeding temperature limits
- Automatically switch output when on input are exceeded temperature limits
- Regulation with the hysteresis 1 °C
- Controls the output according to the temperature at the input
- Automatically sends an SMS with information about the state (switching on or off) the input contact
- Rings up to phone number when changing the state of input contact
- Automatically switch output when change on input
- Time control output
- Output is controlled by ringing on the set time t (1s to 999 minutes)
- It works as eavesdropping
- Restart, shutdown current output socket on 20s (for servers)
- LED indicators to determine the status of GSM socket

KOSTENLOS zum Herunterladen unter Google Play



KOSTENLOS zum Herunterladen unter AppStore



Technical specifications

Power supply	230 V / 50 Hz
GSM module	SIM300 900 / 1800 MHz
Input	temp. sensor CT06-10k-jack (included) bistable CT11 jack (included)
Output	max. 16 A / 250 V (AC1)
GSM antenna	direct1 dB
Dimensions	130 x 57 x 85 mm
Working temperature	0 °C to 40 °C

TS11 WiFi

Order Nr.: - 0076

TS11 WiFi



Wireless Wifi socket



Description:

- You can use the following modes:
 1. Time control - works according to the set program
 2. Countdown - change of state to a specified time (1 min to 24 hrs)
 3. Manual change with the app.
 4. Manual- with the button on the front of the product.
- Easily connect to a WI-FI home network.
- Timer- Funktion
- Status display using 2 LEDs
- Up to 16 changes in automatic mode in each day
- Switching up to 16A (3600W)
- The set program is also active if the WiFi connection fails
- Application for iOS, Android and Windows 10 for free

Technical specifications

Power supply	230 V / 50 Hz
Temperature changes in day	16
WiFi communication	802.11 b/g/n
WiFi module	ESP-WROOM-02D
WiFi sensitivity	<-91 dBm
Minimal programming time	1 minute
Consumption	< 1,5 W
Protection degree	IP20
Connectivity	WiFi
Output	max. 16 A
Working temperature	0 to 40 °C

FREE app for Android



FREE app for iOS



Wireless socket with WiFi control with time and temperature program

TS11 WiFi Therm

Order Nr.: - 0075

TS11 WiFi Therm



+



Description:

- You can use the following modes:
 1. Time control/ Temperature control - works according to the set program
 2. Countdown - change of state to a specified time (1 min to 24 hrs)
 3. Manual change with the app.
 4. Manual- with the button on the front of the product.
- Temperature program/Time program
- Easily connect to a WI-FI home network.
- Timer- Funktion
- Status display using 2 LEDs
- Up to 16 changes in automatic mode in each day
- Switching up to 16A (3600W)
- The set program is also active if the WiFi connection fails
- Application for iOS, Android and Windows 10 for free

Technical parameters

Power supply	230 V / 50 Hz
Number of time changes	16 / day
WiFi communication	802.11 b/g/n
WiFi module	ESP-WROOM-02D
Sensitivity WiFi	-91 dBm
Minimum program time	1 minute
Consumption	1,5 W
Protection degree	IP20 (sensor is not waterproof)
Connectivity	WiFi
Output	max. 16 A
Operating temperature	5 up to 40 °C
Sensor length	1,5 m

FREE application for Android



FREE application for iOS



TS11 WiFi Therm PROFI

Order Nr.: 0074

Socket WiFi thermostat with advanced features

TS11 WiFi Therm Profi



Description:

- You can use the following modes:
 1. Time control/ Temperature control - works according to the set program
 2. Countdown - change of state to a specified time (1 min to 24 hrs)
 3. Manual change with the app.
 4. Manual- with the button on the front of the product.
- HEATING/COOLING Mode
- ANTIFREEZE protection (adjustable)
- Open window function
- Consumption calculation of the connected device
- Temperature program/Time program
- Easily connect to a WI-FI home network.
- Timer- Funktion
- Status display using 2 LEDs
- Up to 16 changes in automatic mode in each day
- Switching up to 16A (3600W)
- The set program is also active if the WiFi connection fails
- Application for iOS, Android and Windows 10 for free

Technical parameters	
Power supply	230 V / 50 Hz
Number of time changes	16 / day
WiFi communication	802.11 b/g/n
WiFi module	ESP-WROOM-02D
Sensitivity WiFi	-91 dBm
Minimum program time	1 minute
Consumption	1,5 W
Protection degree	IP20 (sensor is not waterproof)
Connectivity	WiFi
Output	max. 16 A
Operating temperature	5 up to 40 °C
Sensor length	1,5 m

FREE application for Android

FREE application for iOS



Signal strength indicator for frequency 433.92 MHz

ISS02

Order Nr.: - 9001



Green LED lit. No signal from transmitter, even from interference source.

Only green LED + 3 reds lit. Weak signal from transmitter, which can be by units with FSK communication already processed.

Only green LED + 4 and more reds lit. Good signal from transmitter.

Green LED + 7 and more reds lit. Very good signal from transmitter.

ISS02

Thermoelectric actuator

SEH01-NC

Order Nr.: - 0030

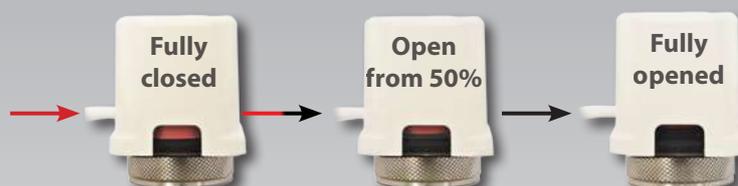


It is intended for control of radiator valves as well as zone valves of the floor heating distributors. Its advantage is noiseless running and long service life.

SEH01-NC is a thermoelectric actuator operating on principle of thermal expansion. When the actuator body is heated by electric current flow, expansion occurs resulting in the valve to open and vice versa. When being cooled down, it closes. Only 1.8 W is sufficient for the valve to open.



SEH01-NC is equipped with open state indication.



SEH01-NC

PT41-M

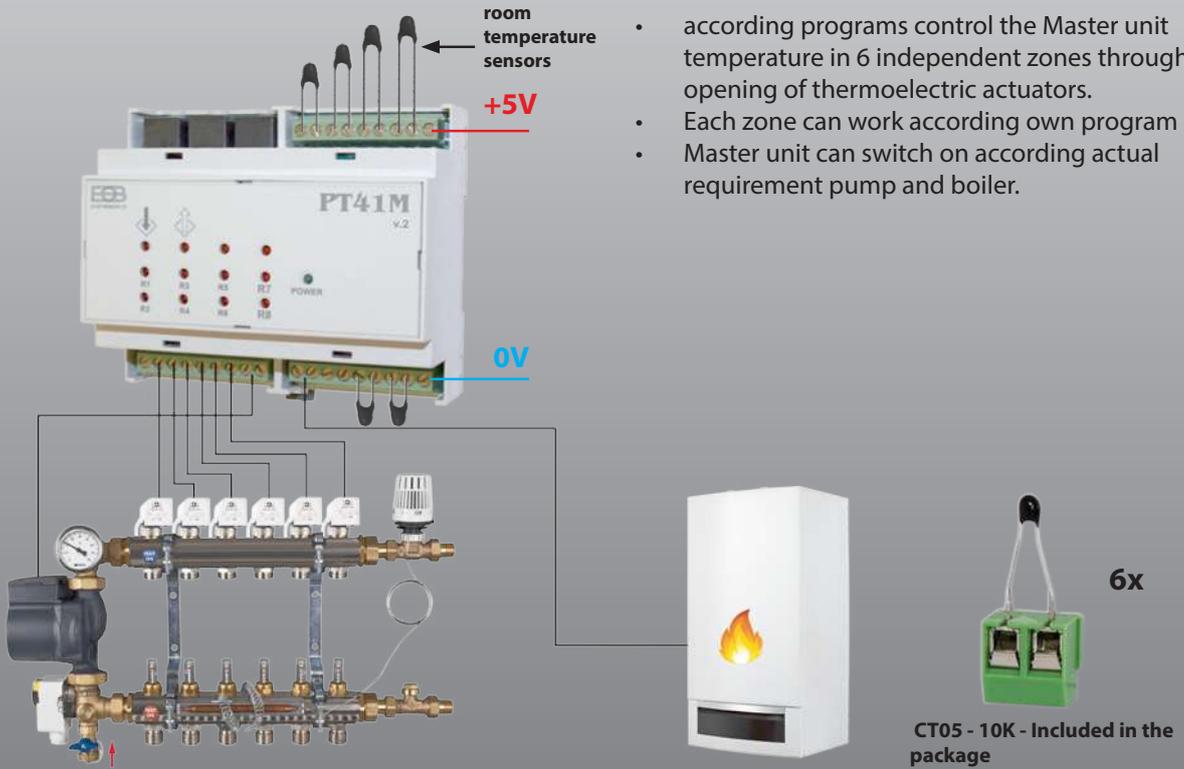
Order Nr.: - 4411

PT41



PT41-M (Master) this unit control 6 heating zones, pump and heating source - boiler.

- according programs control the Master unit temperature in 6 independent zones through opening of thermoelectric actuators.
- Each zone can work according own program
- Master unit can switch on according actual requirement pump and boiler.



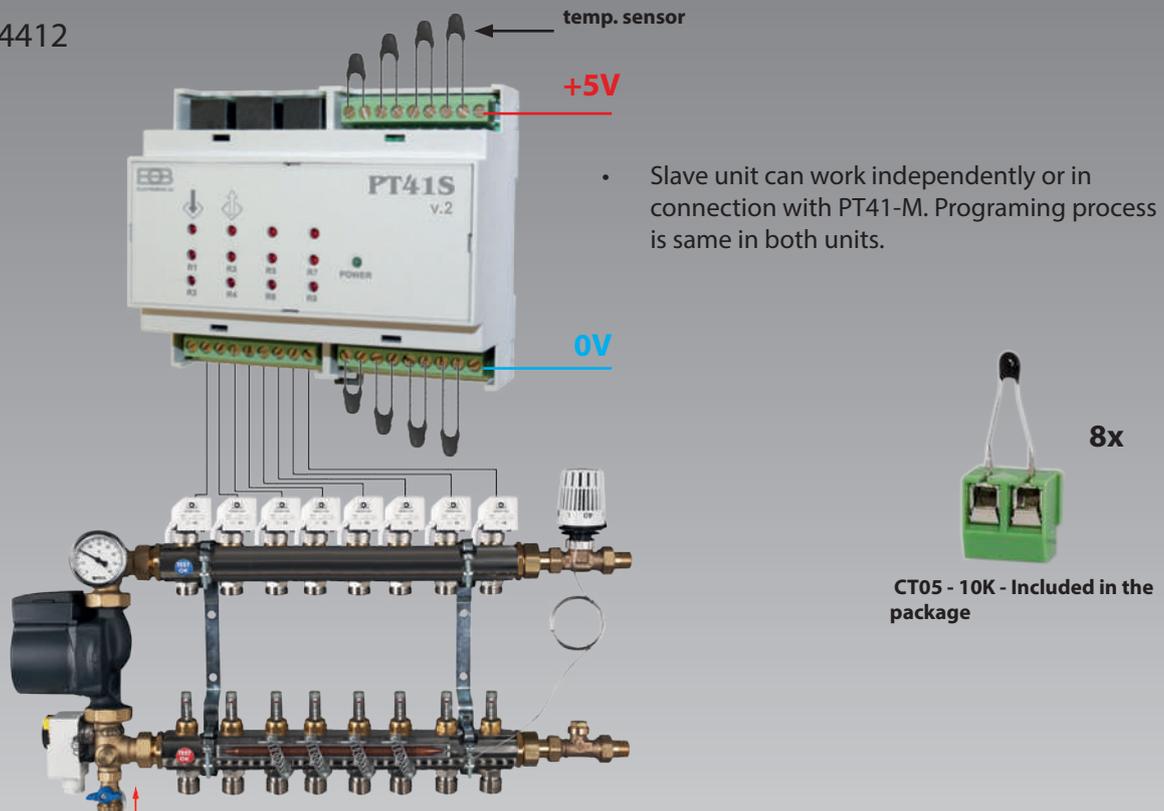
PT41-S

Order Nr.: - 4412

PT41-S (Slave) this unit can control up to 8 zones and circuit pump



- Slave unit can work independently or in connection with PT41-M. Programing process is same in both units.



Units PT41-M and PT41-S can be connected to each other and can be controller remotely by using PRE module through WIFI or Ethernet.



PT41

By using of our converter PRE40 can be the heating system controlled remotely through WIFI or Ethenet.



Setting of all parameters and programming is made through converter.

- PRE-USB / RS232
- PRE40

For remote control are available APPs for free on GOOGLE PLAY and APPSOTRE

App for:



ANDROID



PRE40
Order Nr.: - 1347



PRE-USB / RS232
Order Nr.: - 4114



RJ401

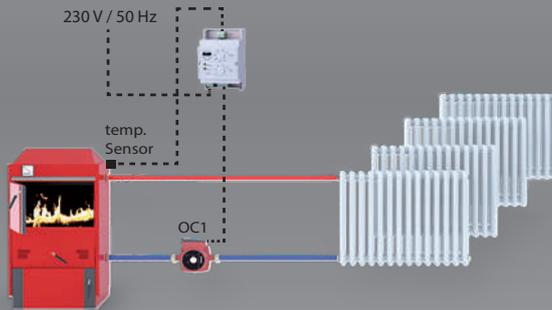
Order Nr.: - 4401

Temperature switch

RJ401 is designed for switching the circulating pump at the desired temperature and afterwards switch off the pump by falling of temperature for preset hysteresis.

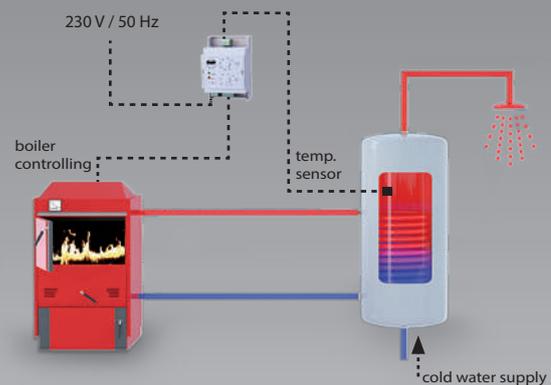


CT01 - 10K - included in the package



Function:

After the boiler has been started and a required temperature has been reached, OC1 shall switch on. If the boiler is again cooled down at the beginning by a returning cold water, OC1 shall switch off. This partially reduces the boiler "pitching" due to a cold return pipe. If the boiler stops and becomes partially cold, OC1 shall switch off as well. This prevents the pump from running uselessly.



Technical specifications

Power supply	230 V / 50 Hz
Consumption	up to 0,5 W
Regulation range	20 °C to 80 °C
Hysteresis	2 °C to 35 °C
Working temperature	0 °C to 50 °C
Outputs	relay 5 A / 250 V AC potential free contacts
Protection degree	IP20
Installation	on DIN rail
Temperature sensor 10K	1 pcs

Automatic start of the boiler upon decrease of the central heating water temperature - control of recharging (only for boilers enabling this function)

When the tank temperature decreases below the set value, the contact shall switch on and the boiler shall start. When the required temperature is reached, the boiler shall stop. Advantage of this control is the possibility of adjusting hysteresis in the range from 2 to 35 °C.

Differential temp. switch

RJ402

Order Nr.: 4402

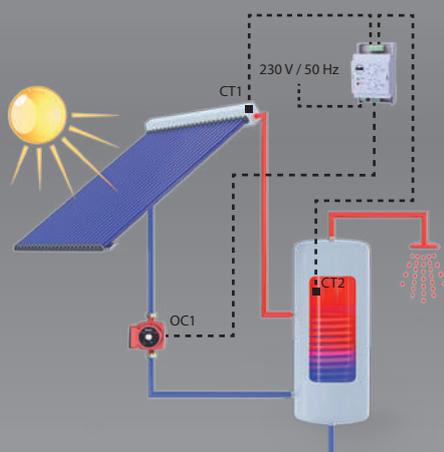
RJ402 is designed for switching the pump by preset difference of temperatures and afterwards switch off the pump by falling of temperature difference for preset hysteresis.



2 x CT01 - 10K - included in the package

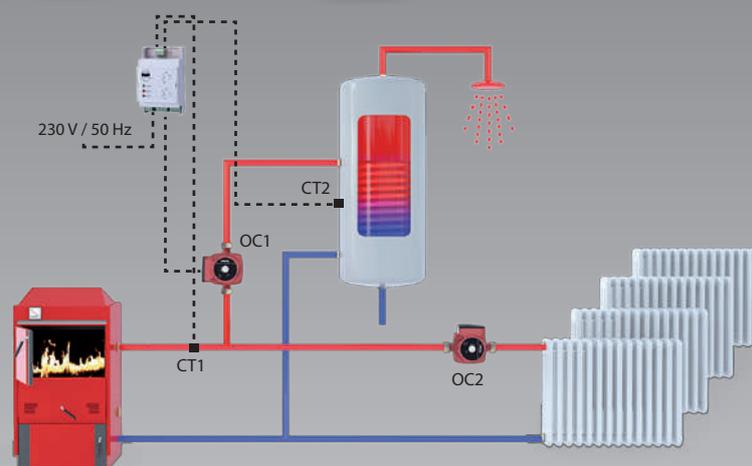


RJ402



Controlling of pump by solar system:

RJ402 compares a temperature difference between CT1 and CT2. When CT1 becomes warmer than CT2 by a set value, the relay shall switch on and the motor OC1 shall start. If the solarium temperature decreases by a set limit, OC1 shall stop.



Automatic charging of hot water tank:

RJ402 measures temperature in the heat source, in the boiler in this case. If the boiler temperature is higher by a selected value than the tank temperature, OC1 shall start resulting in hot service water recharging. When difference of temperatures decreases by a set value (drop), the hot service water tank recharging shall stop.

Technical specifications

Power supply	230 V / 50 Hz
Consumption	up to 0,5 W
Max. temp. on the sensor	-20 °C to 120 °C
Diff. of temperatures	2 °C to 50 °C
Hysteresis	2 °C to 35 °C
Working temp.	0 °C to 50 °C
Outputs	relay 5 A / 250 V AC potential free contacts
Protection degree	IP20
Installation	on DIN rail
Temperature sensor 10K	2 pcs

RJ403

Order Nr.: - 4403

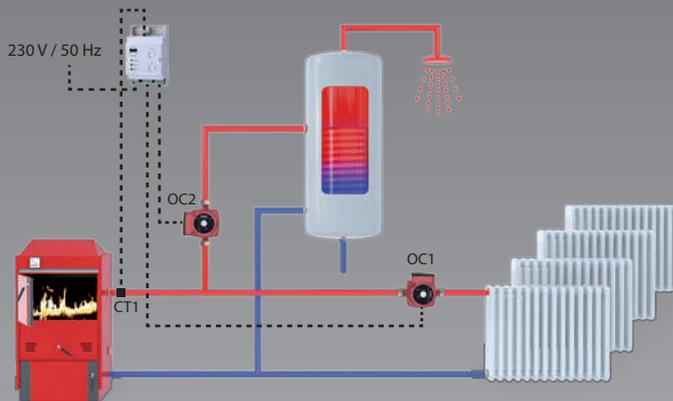
Two-level electronic thermostat

RJ403 is designed for switching the circulating pump by preset temperature T1 and T2 and afterward switch off the pump by falling of temperature for 5 °C.

RJ403



CT01 - 10K - included in the package



RJ403 has two adjustable levels for switching:

When the heat source temperature reaches the first level, RE1 shall switch on resulting in OC1 to start to supply energy to the heating system.

If there is sufficient energy in the system and water temperature continues increasing, its temperature shall reach the second level resulting in the hot service water tank recharging. Hysteresis of both values is fixed to 5 °C.

In case of a failure of the temperature sensor, both pumps shall start.

Technical specifications

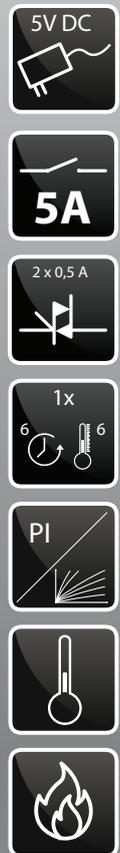
Power supply	230 V / 50 Hz
Consumption	1 W
Regulation range	20 °C to 80 °C
Hysteresis	5 °C
Working temp.	0 °C to 50 °C
Outputs	relay 5 A / 250 V AC potential free contacts
Protection degree	IP20
Installation	on DIN rail
Temperature sensor 10K	1 pcs

Three/four-way valve controller

R3V is digital programmable electronic controller for three/four-way valves with continuous regulation of movement and with controlling of pump.

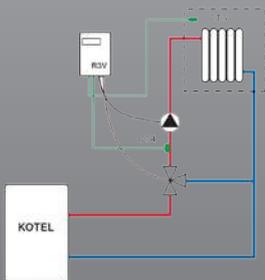
R3V

Order Nr.: - 4201

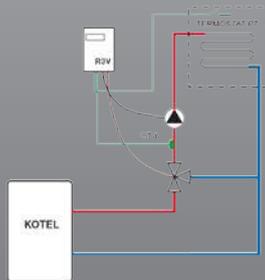


R3V

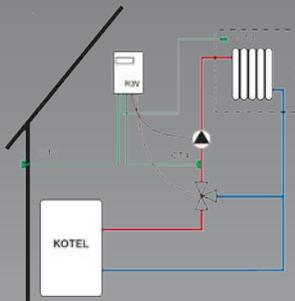
Regulation number 1



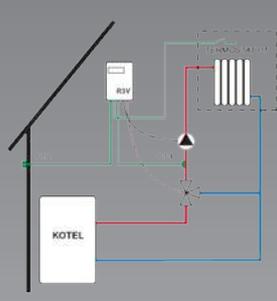
Regulation number 2



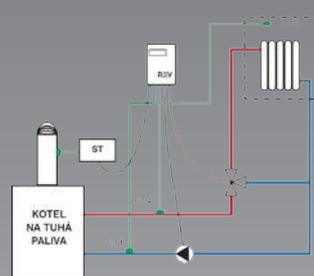
Regulation number 3



Regulation number 4



Regulation number 5



Basic features:

- temperatures indication on LCD
- weekly programming
- six programmings and six temp. changes per day
- six types of regulation
- storage of programmings by power failure
- automatic summer/winter time change
- maximum temp. monitoring for central heating
- return pipe temperature monitoring
- selection of temperature of: return pipe, room, downstream of valve
- selection of regulation interval
- selection of valve run length
- selection of pump running down
- automatic adaptation

Technical specifications

Power supply	5 V DC, 500 mA
Consumption	< 1,5 W
I max (for pump)	5 A
I max (for motorized valve)	0,5 A
Number of temp. changes	6 for each day
Min. programming time	10 minutes
Temp. setting	by 0,5 °C
Min. indication leap	0,1 °C
Measurement accuracy	±0,5 °C
Protection degree	IP20
Working temperature	0 °C to 40 °C

* it is necessary to purchase an AD05-DIN power supply for the controller - it is not part of the package

R3V-421

Order Nr.: - 4421

Controller for valves for two zones systems

R3V-421 is intended for continuous regulation of actuators of mixing valves for one or two heating circuits. Regulation is based on the room temperature, outdoor temperature, temperature downstream of the valve or the return pipe temperature. Depending on a selected regulation mode, regulation can be matched to the given system by adjusting constants.

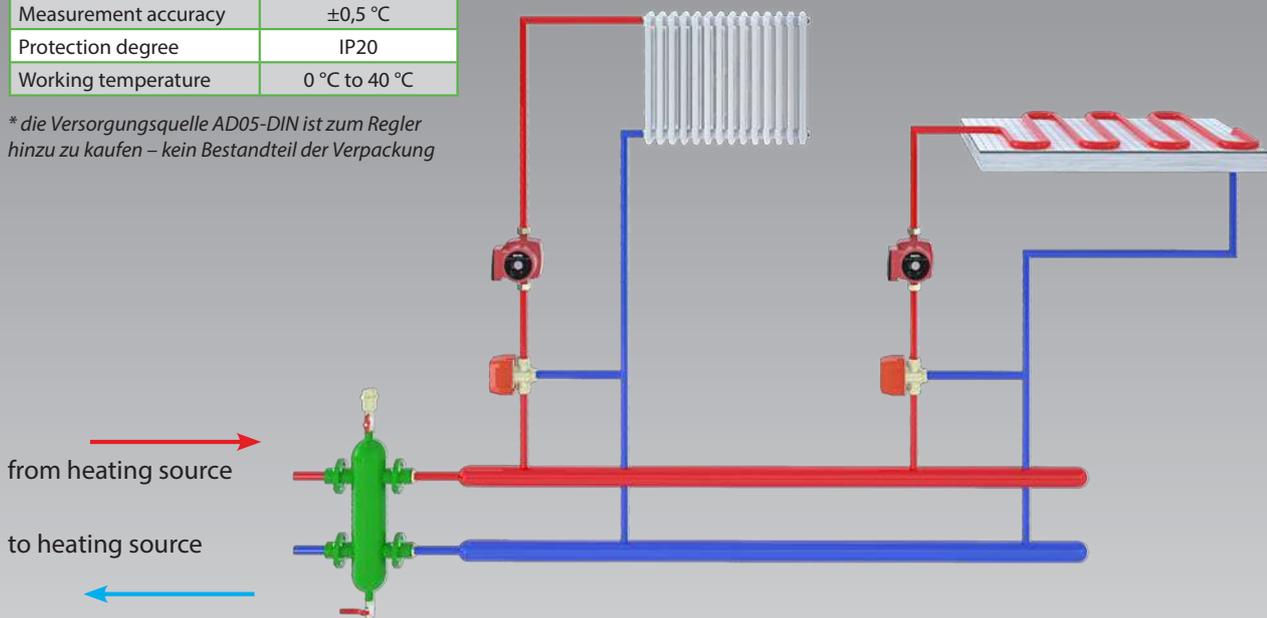
R3V-421



Technical specifications

Power supply	5 V DC, 500 mA
Consumption	< 1,5 W
I max	5 A
Number of temp. changes	6 for each day
Min. programming time	10 minutes
Temp. setting	by 0,5 °C
Min. indication leap	0,1 °C
Measurement accuracy	±0,5 °C
Protection degree	IP20
Working temperature	0 °C to 40 °C

* die Versorgungsquelle AD05-DIN ist zum Regler hinzu zu kaufen – kein Bestandteil der Verpackung



from heating source →
to heating source ←

Circuit regulator for three / four-way valves

R3V-422

Order Nr.: - 4422

R3V-422 is intended for continuous regulation of actuators of mixing valves for one or two heating circuits. Depending on a selected regulation mode, regulation can be matched to the given system by adjusting constants.



R3V-422

Technical specifications

Power supply	5 V DC, 500 mA
Consumption	< 1,5 W
I max	5 A
Number of temp. changes	6 for each day
Min. programming time	10 minutes
Adjustable temp. range	2 °C to 99 °C
Temp. setting	by 0,5 °C
Min. indication leap	0,1 °C
Measurement accuracy	±0,5 °C
Outputs	250 V AC
Protection degree	IP20
Working temperature	0 °C to 40°C

* for controller it is necessary to by power supply unit AD05-DIN - not included in the package

Diagram 1

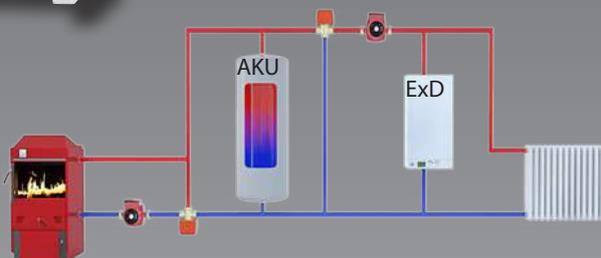


Diagram 2

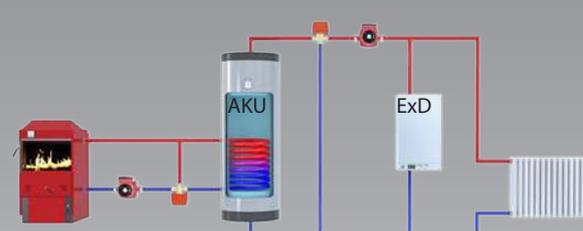


Diagram 3

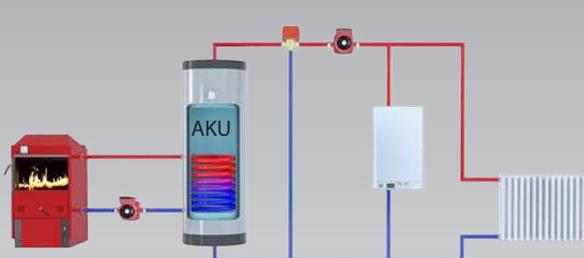
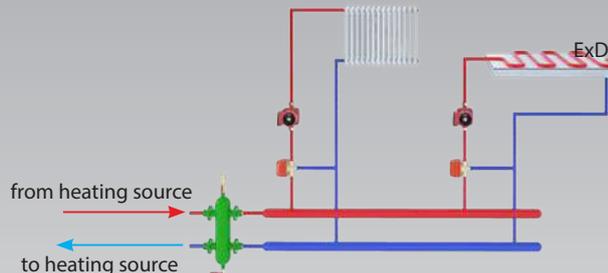


Diagram 4



R3V-A1

Three/four-way valve controller Return pipe temperature monitoring

Order Nr.: - 4423

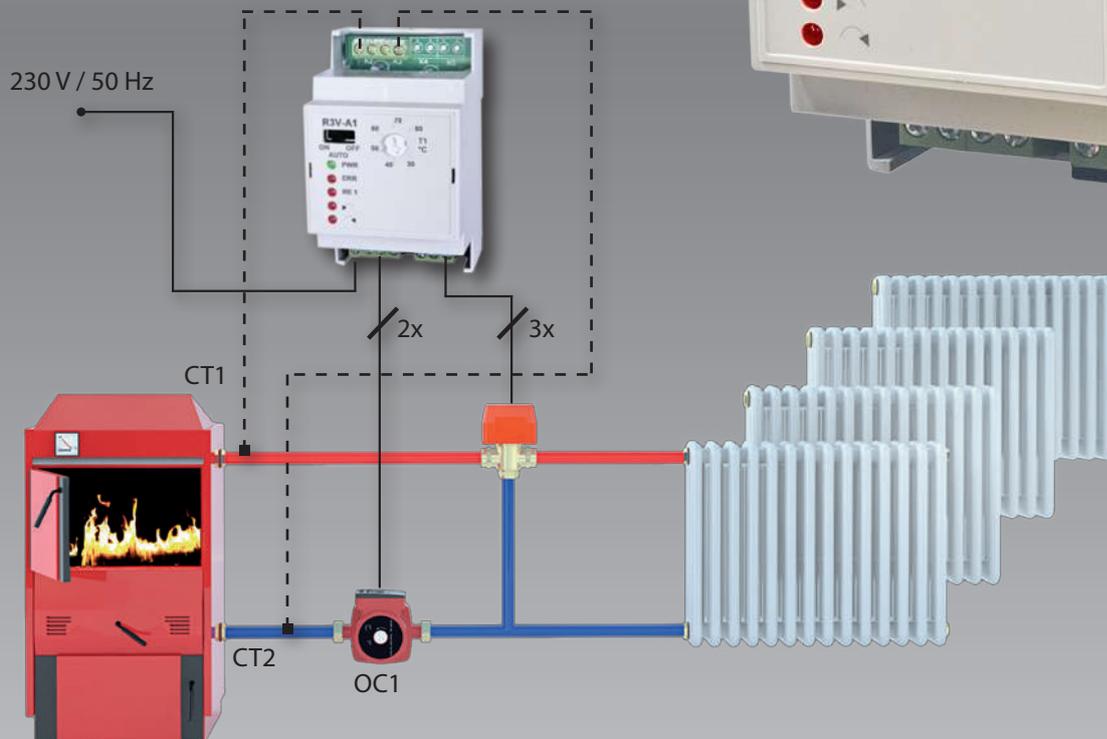
R3V-A1



The device is intended for continuous regulation of an actuator of a mixing valve and control of a circulating pump depending on a required and an actual return pipe temperature. R3V-A1 maintains the return pipe temperature for boilers at a required level, thereby improves burning parameters and extends the boiler life. The boilers controlled in this way do not show low-temperature corrosion.



2 x CT01 - 10K - included



Technical specifications		Output OC 1	relay
Power supply	230 V / 50 Hz	Switching current	max. 8 A / AC1
Consumption	< 1 W	Contact type	switching
Working temp.	0 °C to 50 °C	Type of valve	optotriac
Regulation range	30 °C to 80 °C	Optotriac	max. 0,1 A / AC1
Back water temp.	30 °C to 80 °C	Contact type	semiconductor

Equithermal regulator of mixing valves

R3V-A2

Order Nr.: - 4424

The device is intended for continuous regulation of a mixing valve depending on outdoor temperature and a thermostat request in the reference room.



CT01 - 10K - included

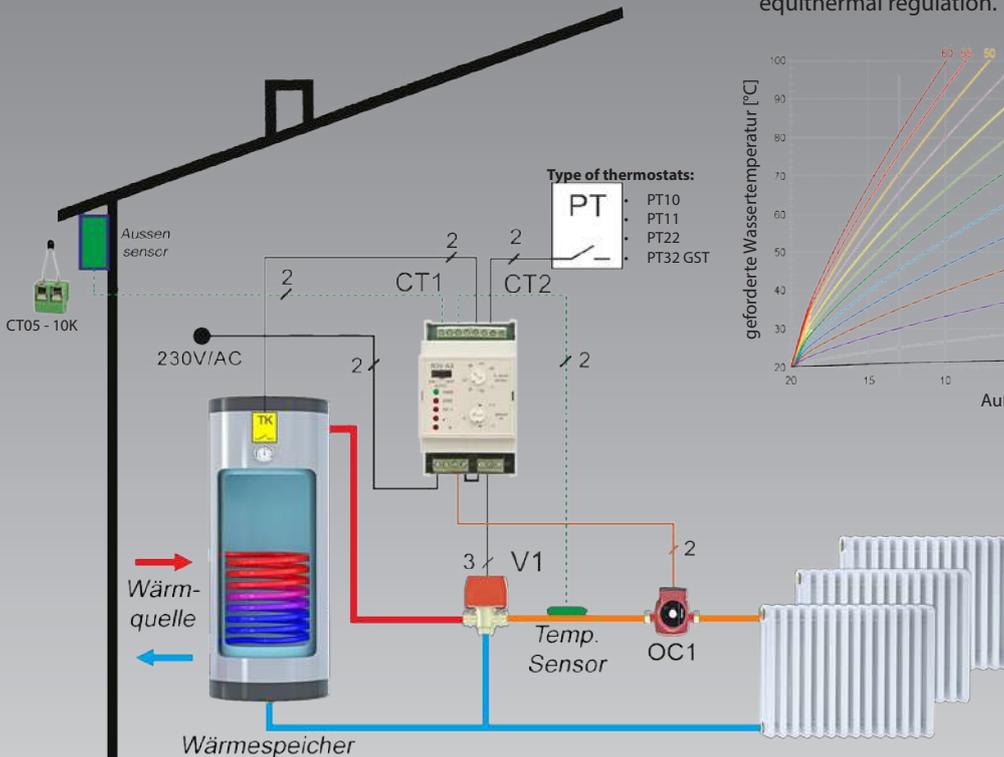
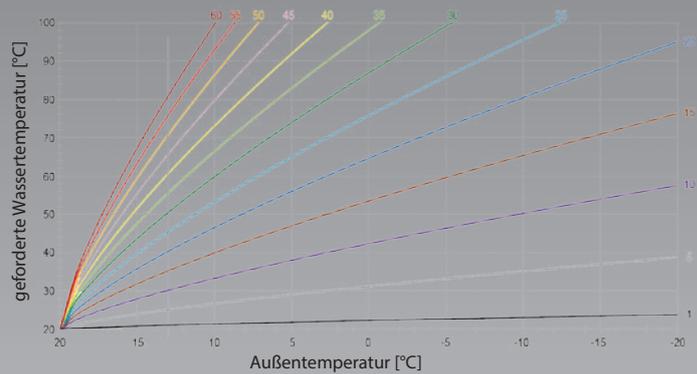


CT05 - 10K - included



R3V-A2

A required water temp. depending on outdoor temperature for equithermal regulation.



App-äquitherme Kurve



www.history.elektrobock.cz/Equitherm

R3V-A3

Equithermal regulator of three way valves

Order Nr.: - 4425

R3V-A3



R3V-A3 is designed for regulation of water temperature for heating depending on outer temperature with priority of monitoring back water from boiler, which is set on 60 °C.



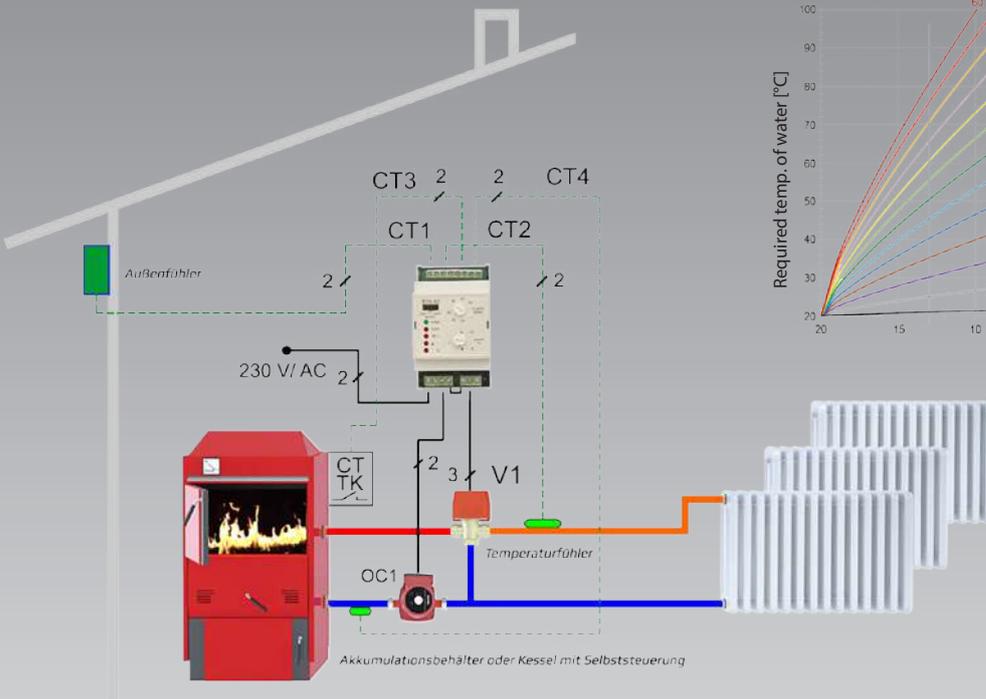
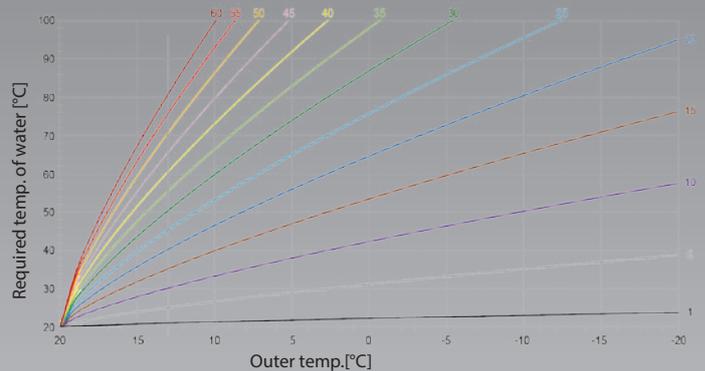
CT01 - 10K - included in the package



CT05 - 10K - included in the package



A required water temp. depending on outdoor temperature for equithermal regulation.





More information about prices and products on:

www.elbock.cz



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