B 50302 24V / 230 V B 41402 | B 40502 | B 40602 B 21402 | B 20502 | B 20602

Scope of supply



About these instructions

These instructions must the read completely and thoroughly before commencing any work with the base. These instructions must be kept and to be handed over to future users.

Individual positions of the device designations are replaced by an x in these instructions. Depending on the position it replaces the indication of several device types. For example: B x1402 corresponds to B 41402 and B 21402. You can view and download these instructions and more instructions under www.ezr-home.de.

The following symbols show

a list,



a warning with respect to electrical voltage

an important information.

Safety

3.1 Intended use

The base serves

- for the arrangement of a room-by-room temperature control system with a maximum of 10 zones (depending on the type used) for heating and cooling systems,
- the connection of a maximum of 18 actuators and 10 room control units (depending on the type used),
- the connection of actuators with the control direction NC (normally closed) or NO Power input 24 V / 230 V: (normally open), depending on the thermostat used,
- the connection of an external timer,
- depending on the type used, the connection of a pump or a boiler, a CO signal Connectable actuators Type⁴ generator, a temperature limiter or dew point sensor,
- a fixed installation.

dangers the manufacturer cannot be held liable for.

3.2 Safety notes

All safety notes in these instructions must be observed in order to avoid accidents with personal damage or property damage.

WARNING

Danger to life due to the electrical voltage at the base station!

- Always disconnect from the mains network and secure against unintended activation before opening.
- Only an authorised electrician may open the device.
- Disconnect external voltages and secure against activation.
- Only use the product if it is in flawless state.
- Do not operate the device without device cover.
- This unit is not intended to be used by persons (including children) with restricted physical, sensory or mental skills or who lack experience or knowledge. If necessary, these persons must be supervised by a person responsible for their safety or receive instructions from this person on how to use this unit.
- Ensure that children do not play with this device. Children must be monitored if
- In case of emergency, disconnect the complete room-by-room temperature control system.

3.3 Personnel-related preconditions

The electrical installations must be performed according to the current national VDE regulations as well as according to the regulations of your local electric power utility company. These instructions require special knowledge corresponding to an officially • acknowledged degree in one of the following professions:

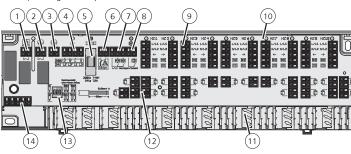
- Systems Mechanic for sanitary, heating and air condition technology
- Electrical Equipment Installer or
- Electronics Engineer

according to the profession designations officially announced in the Federal Republic Increased protection requirements may exist for the overall installation, the compliof Germany, as well as according to comparable professions within the European ance of which is the responsibility of the installer. Community Law.

Device overview

4.1 Connections and indications

The following instructions show the full equipment. Individual positions may be omitted depending on the present base.



- Boiler connection
- Pump connection
- Protective conductor connection (only for 230 V)
- Voltage supply
- Fuse
- Temperature limiter or dew point sensor
- Reduction channel, external timer
- 8 Heating/cooling change-over
- Thermostat connection
- 10 LFDs
- 11 Strain relief
- 12 Connection of actuators
- 13 DIP switch
- 14 Contacts for casing cover with integrated system clock

4.2 Technical data

B50302: 24 V ±20 %, 50 Hz Operating voltage: 230 V ±10 %, 50 Hz

24 V ±20 %, 50 Hz

B4xx02: B2xx02 230 V ±10 %, 50 Hz

max. 36 VA / max. 50 VA

Fuse 24 V / 230 V: T2A / T4AH Number of heating zones: 6 or 10

A 20x05, A 21x05, A 40x05, A 41x05,

AST 20x05, AST 21x05, AST 40x05, AST 41x05

6 / 10 heating zones: max. 15 / max. 18

Every other use, modification and conversion is expressively forbidden and leads to The following applies to other actuators than those mentioned above

Inrush current per actuator: max. 500 mA (for 230 V) Nominal load of all actuators: max. 24 W (for 24 V)

Pump/boiler control

Switching power^{2, 3}: 2 A, 200 VA inductive

Turn-on delay3: 2 min

Follow-up time fixed/adjustable³:2 min / 5 - 15 min Pump protection function³: 14 days for 1 minute Control direction: NC or NO1 / NC2 / selectable3

Ambient temperature: 0 to +50 °C -20 to +70 °C Storage temperature:

Ambient humidity: 80%, not condensing Temperature for ball pressure test: Terminals: 100 °C

Plastic enclosures: 75 °C

Pollution degree: Rated impulse voltage: 1500 V ERP class acc. to EU 811/2013: 1=1 % Protection class 24 V / 230 V: III / IIProtection type: IP 20

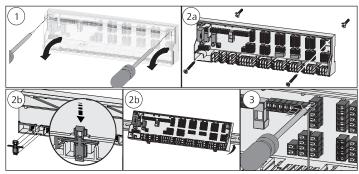
Type action: Type 1 / Type 1.C Dimensions (H x L x D): 90 x 326.5 x 50 mm B 50302 (depending on thermostat) B 41402, B 21402 B 40502, B 40602, B 20502, B 20602 depending on the operating voltage (24 V/230 V) of the base

4.3 Conformity

This product is labelled with the CE Marking and thus is in compliance with the requirements from the guidelines:

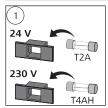
- 2014/30/EU with amendments "Council Directive on the approximation of the laws of the Member States relating to Electromagnetic Compatibility'
- 2014/35/EU with amendments "Council for Coordination of the Regulations of EU Member Countries regarding the electrical equipment for use within certain voltage limits"
- 2011/65/EU "Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment"

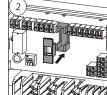
5 Installation



- 1. Take off the cover.
- Install the base. In case of wall mounting, fix the base to the wall with 2 screws Ø 4 mm and corresponding dowels according to the quality of the wall. In case of installation on a mounting bracket, use a bracket TS 35/7.5.
- Make the electric connection.
- 4. Install the cover.

5.1 Select and insert the fuse (only B 50302)

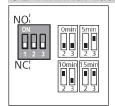




Depending on the fuse inserted (included in the scope of delivery) the B 50302 can be operated at 24 V or 230 V voltage

The voltage used must be marked on the identification plate.

5.2 Parametrization



The control direction is set with jumper 1:

NO operation: Jumper 1 = ON**NC operation:** Jumper 1 = OFF

The fixed follow-up time of 2 minutes of the pump or the boiler can be increased by further 5, 10 or 15 minutes using jumper 2 and 3:

Time	Jumper 2	Jumper 3
0 min	OFF	OFF
5 min	OFF	ON
10 minutes	ON	OFF
15 minutes	ON	ON

7 LED signalling (only B 40x02, B 20x02)

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Function	Colour	Explanation		
Pump/boiler	Green	On: Pump/boiler active		
,		Off: Pump/boiler inactive		
		Flashing: Temperature limiter/dew point sensor active		
Mains voltage	Green	On: Device in operation		
_		Off: Device not in operation		
		Flashing: Valve protection function active (Option)		
Fuse	Red	On: Fuse defective		
Change over	Blue	On: Cooling mode active		
		Off: Heating mode active		
Heating zones	Green	On: Heating zone active		
1 to x		Off: Heating zone off		

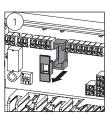
8 Maintenance

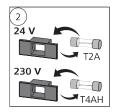
8.1 Fuse change

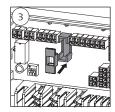


WARNING Electrical voltage! Danger to life!

- Always disconnect the base from the mains network and secure against unintended activation before opening.
- Disconnect external voltages and secure against unintended activation.







8.2 Cleaning

Only use a dry and solvent-free, soft cloth for cleaning

9 Dismantling



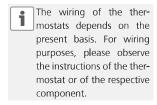
WARNING!Electrical voltage! Danger to life!

- Always disconnect the base from the mains network and secure against unintended activation before opening.
- Disconnect external voltages and secure against unintended activation.
- De-energise the complete installation.
- · Remove the wiring to all externally connected components.
- Remove the base and dispose it of properly, if necessary.

6 Electric connection

The voltage supply of the 24 V version must come from a safety transformer according to EN 61558-2-6 or, for North America, from a Class II Transformer according to UL.

For the connection of the voltage supply, the cable sections must be 0.75 mm² - 1.5 mm² for 24 V or 1.5 mm² for 230 V. Depending on the voltage version of the base, it is possible to take L1 or L and L2 or N, as well as the protective conductor, from the base. A temperature limiter/dew point sensor can be connected to the contact TB/%H in NC operation; this contact cannot be used in NO operation. If no temperature limiter is connected, the connection TB/%H must be bridged (provided for at the factory). The bridge must be removed as soon as a temperature limiter is connected. The temperature limiter must be a normally closed contact.





Analogous thermostat

SSS Boiler

Pump

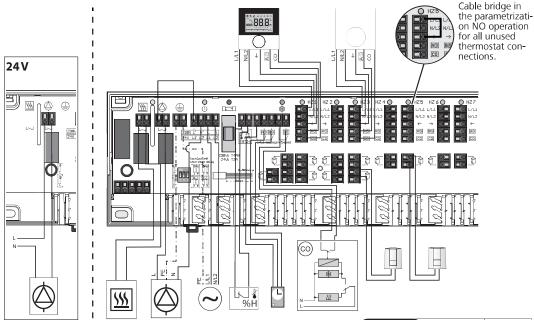
Voltage source

Temperature limiter

System clock

(co) Heating/cooling change-over

☆ Cooling



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