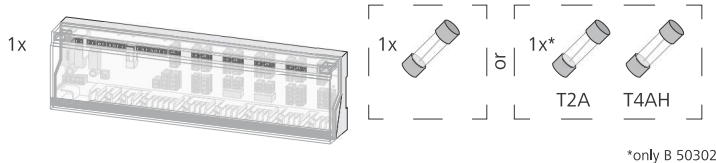


B 50302	24V / 230 V
B 41402 B 40502 B 40602	24 V
B 21402 B 20502 B 20602	230 V

1 Scope of supply



2 About these instructions

These instructions must be read completely and thoroughly before commencing any work with the base. These instructions must be kept and 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.

The following symbols show

- a list,
- a warning with respect to electrical voltage
- an important information.

3 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 (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 generator, a temperature limiter or dew point sensor
- a fixed installation

Every other use, modification and conversion is expressly forbidden and leads to 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 necessary.
- 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:

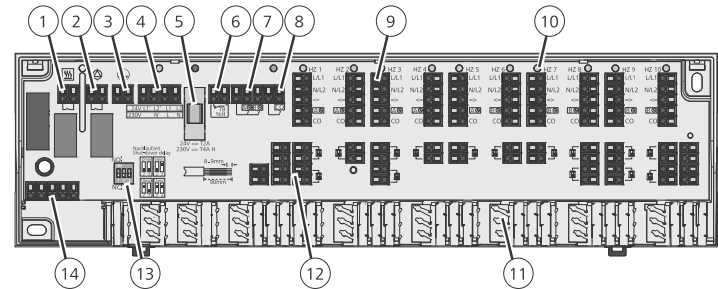
- Systems Mechanic for sanitary, heating and air condition technology
- Electrical Equipment Installer or
- Electronics Engineer

according to the profession designations officially announced in the Federal Republic of Germany, as well as according to comparable professions within the European Community Law.

4 Device overview

4.1 Connections and indications

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



- | | |
|--|---|
| 1 Boiler connection | 8 Heating/cooling change-over |
| 2 Pump connection | 9 Thermostat connection |
| 3 Protective conductor connection (only for 230 V) | 10 LEDs |
| 4 Voltage supply | 11 Strain relief |
| 5 Fuse | 12 Connection of actuators |
| 6 Temperature limiter or dew point sensor | 13 DIP switch |
| 7 Reduction channel, external timer | 14 Contacts for casing cover with integrated system clock |

4.2 Technical data

Operating voltage:	B50302: 24 V $\pm$ 20 %, 50 Hz 230 V $\pm$ 10 %, 50 Hz
	B4xx02: 24 V $\pm$ 20 %, 50 Hz
	B2xx02: 230 V $\pm$ 10 %, 50 Hz
Power input:	24 V: 30 VA 230 V: 50 VA
Fuse:	24 V: T2A 230 V: T4AH
Number of heating zones:	6 or 10
Max. number of thermostats:	6 or 10
Actuators:	6 heating zones: max. 15 10 heating zones: max. 18 max. 24 W
Nominal load of all actuators:	
Pump/boiler control ^{2,3}	
Switching power:	2 A, 200 VA inductive
Turn-on delay:	2 min
Follow-up time fixed/adjustable:	2 min / 5 - 15 min ³
Valve protection function:	14 days for 10 Min
Control direction:	NC or NO ¹ / NC ² / selectable ³
Ambient temperature:	0 to +50 °C
Storage temperature:	-20 to +70 °C
Ambient humidity:	80%, not condensing
Protection class:	24 V: III 230 V: II
Protection type:	IP 20
Dimensions (H x L x D):	90 x 326.5 x 50 mm
Weight:	6 heating zones: 427.6 g $\pm$ 35 g 10 heating zones: 449 g $\pm$ 35 g

¹ B 50302 (depending on thermostat)
² B 41402, B 21402
³ B 40502, B 40602, B 20502, B 20602

4.3 Conformity

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

- EN 60730 Automatic electrical controls
- 2004/108/EG with amendments "Council Directive on the approximation of the laws of the Member States relating to Electromagnetic Compatibility"
- 2006/95/EG 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"

Increased protection requirements may exist for the overall installation, the compliance of which is the responsibility of the installer.

