OEM Basis Heating/Cooling with Pump and Boiler Control B HK 4032 / B HK 2032

The OEM Basis Heating / Cooling serves as a connection unit in order to interconnect room thermostats (OEM Thermostats HK) and valve drives (e. g. OEM Actuators) in an easy and comfortable way. The unit has connections for the activation of a pump and a boiler or for further electrical consumers. The unit can be adapted to NC or NO systems by means of jumpers. Due to the possibility of an external change-over by means of a CO signal, this regulation system is appropriate for heating and cooling in single circuit systems.

The OEM Basis Heating / Cooling is appropriate for new constructions, as well as for the re-fitting of residential and commercial buildings with already existing surface heating / cooling systems. It is preponderantly used in the vicinity of heating circuit distributors.



Features

- OEM design
- 24 V and 230 V versions
- Screwless plug-in/clamping connection technique
- Clearly structured connections
- NC and NO operation selectable for switching contacts
- CO input for heating/cooling function
- Control of a pump and another electrical consumer, e. g. a boiler, integrated
- Follow-up times for the pump contact can be set
- Pump protection circuit
- Large labelling field
- Perfect price-performance ratio
- System integration with OEM Thermostats and OEM Actuators
- Integrated strain relief
- High functional security
- Maintenance-free

General Information

Scope of delivery (Standard)

Version OEM Basis Heating / Cooling 24 V:

1 x OEM Basis HK 24 V

1 x installation instruction in 11 languages

Version OEM Basis Heating / Cooling 230 V:

1 x OEM Basis HK 230 V

1 x installation instruction in 11 languages

Type designation

B HK 4032: Version 24 V without transformer B HK 2032: Version 230 V

Accessories

- Transformer for 24 V version (AB ST 4000 N)
- Timer for automatic temperature setback (DS 1000)

Connection recommendations Version "normally closed" (NC)

• OEM Thermostats 24V: R HK 4012 2 230V: R HK 2012 2 24V: A 4004 OEM Actuators 230V: A 2004

Version "normally open" (NO)

24V: R HK 4112 2 OEM Thermostats 230V: R HK 2112 2 OEM Actuators 24V: A 4104 230V: A 2104

Customer-specific version

Customer-specific versions are available on request.

Ordering information

Our staff will be glad to assist you in finding the OEM Basis fitting your application.

Ćall us under: +49 (0) 53 41 - 84 75 - 0

Application

The OEM Basis Heating / Cooling is used for the single room control of surface heating systems, or, in case of a corresponding installation layout, of single circuit surface cooling systems.

Function

The OEM Basis Heating / Cooling is designed for direct wall installation in the heating circuit distribution cabinet. The operating voltage for the connected devices is provided via the OEM Basis Heating / Cooling. The connection of 6 room thermostats (e.g. OEM Thermostats) and a total of 12 valve drives (e. g. OEM Actuators) is possible.

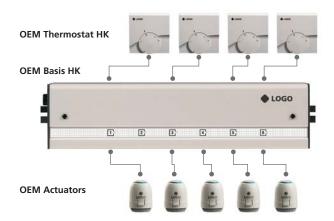
The screwless connection technique (plug-in/clamping connections) allows simple and quick installation. All electrical lines are secured with cable grips.

The system can change between the heating and the cooling mode by means of a CO signal.

Automatically reduced operation with two separate heating programs can be realised by means of a timer signal (e. g. from the digital timer DS 1000) in conjunction with the OEM thermostats.

2 potential-free contacts allow the control of a heating pump and another electrical consumer, e. g. a boiler. A follow-up time of max. 15 minutes can be set for the pump contact. Both contacts can be adapted to the operating modes NC and NO by means of parametrisation.

The OEM System





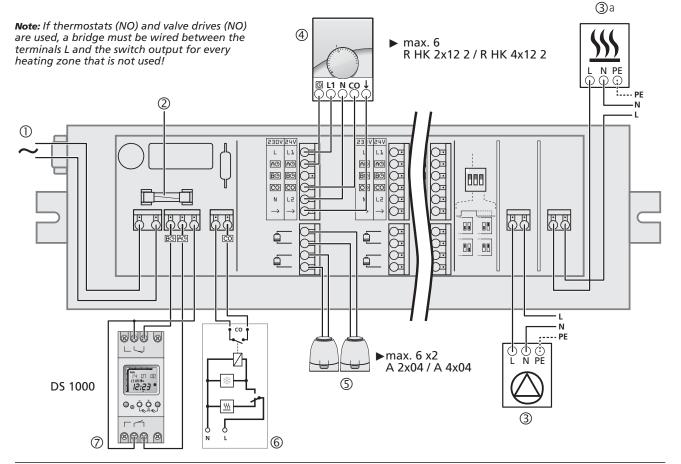
Technical Data

Туре	B HK 4032	B HK 2032	
Operating voltage	24 V AC 5060 Hz, +/- 10 %	230 V AC 50 Hz, +/- 10 %	
Max. power input	50 W	50 W	4 345 ▶
Fuse	T 2A	T 4A H	
Max. number of thermostats	6	6	
Max. number of valve drives (about 2 W)	12	12	
Heating programs, optional	2	2	^
Protection class	II	III	
Schutzart	IP 20	IP 20	
Ambient temperature	0 to +60°C	0 to +60°C	
Storage temperature range	-25 to +70°C	-25 to +70°C	40 ▶ 40 ▶
Relative humidity	80% max. ¹⁾	80% max. ¹⁾	
Weight	450 g	400 g	
Dimensions (mm) H / W / L	74 / 40 / 345	74 / 40 / 345	1)
Pump module:			1) not condensing 2) We recommend 5-wire lines (e. g. 5 x 1.5 mm² NYM) as a
Switching voltage / switching current of pump	230 VAC, 5 A / 24 V DC, 1 A	230 VAC, 5 A / 24 V DC, 1 A	minimum for the electric connection of the thermostats.
Pump protection circuit	24h / 5min	24h / 5 min	
normally closed / normally open	adjustable	adjustable	
Coasting delay	0-5-10-15 min	0-5-10-15 min	"w.tuv. _{Co.}
Applicable wire sections	_	,	• BAUART GEPRÜFT
solid wire ²⁾	0.25 – 1.5 mm ²	0,25 – 1.5 mm ²	TÜVRheinland • TYPE APPROVED
flexible wire	0.25 – 1.5 mm ²	0.25 – 1.5 mm ²	S. ₹800000000

Installation Notes

The connection terminals are prepared for single-core and multicore copper wires with a section of $0.24 - 1.5 \text{ mm}^2$ for a stripping length of 8 - 9 mm. Insertion is performed without tools, removal is performed by pressing down with a flat screwdriver.

- ① Power supply connection for the 24 V system. For the 230 V system, a factory-mounted mains cable with Euro plug is provided already.
- ② Microfuse: T4AH for 230 V, T2A for 24 V
- 3 Here you can connect a pump and/or another electrical consumer, e. g. a boiler (3a). The activation is performed by parallel connection from all thermostats.
- ④ In this manner, connect a maximum of 6 thermostats to the B HK x032 (according to the figure).
- In this manner, connect a maximum of 12 valve drives, 2 per
- © If you connect a potential-free contact (make contact), you can switch between heating and cooling operation.
- There you can connect the potential-free contact of a timer.



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