

## frogblue heating controller

### frogBoxHeat B-Heat.01

## Multi-channel heating controller

### Intended use

Multi-channel heating controller with five potential-free relay outputs for connecting thermal heating valves or electric radiators. It has additional virtual outputs for controlling removed frogs. There are two inputs for querying buttons/switches.

### Safety instructions

Installation and assembly of electrical devices may only be carried out by qualified electricians.

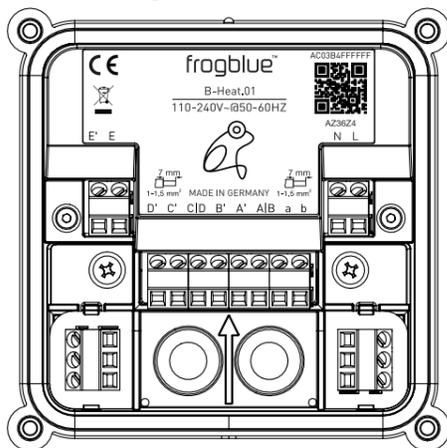
Non-observance of the instructions may cause damage to the device, fire or other hazards!

Risk of electric shock. Before working on the device, disconnect the mains voltage and switch off the automatic circuit breaker.

Country-specific regulations must be observed.

These instructions are part of the product and must remain with the customer.

### Device configuration



- A | B & A': Floating contact after A'
  - A | B & B': Floating contact after B'
  - C | D & C': Floating contact after C'
  - C | D & D': Floating contact after D'
  - E & E': Floating contact after E'
  - a: Input 1 (110–240 V~)
  - b: Input 2 (110–240 V~)
  - L/N: Mains cable connection
- Lower terminal blocks can be assigned as required.

### Function

#### System information

This device is a frogblue system product. Detailed expertise gained from frogblue training is required.

The function of the device depends on the software. Detailed information about software versions and the respective scope of functions can be found on the frogblue website.

Technical descriptions, more detailed instructions and information on proper disposal are contained in the manual, which is available on the frogblue website.

Start-up and configuration are carried out with the frogblue app.

#### Product features:

- 1 RGB LED
- 2 inputs (110–240 V~)
- Bluetooth interface
- Brightness sensor
- Temperature sensor
- Time buffer
- Supply via mains cable; no additional cabling between the frogblue modules necessary

## Information for qualified electricians

### Installation and electrical connection



#### DANGER!

Electric shock from touching live parts.

Electric shock can be fatal.

Before working on the device, disconnect it from the mains and cover any live parts in the vicinity!

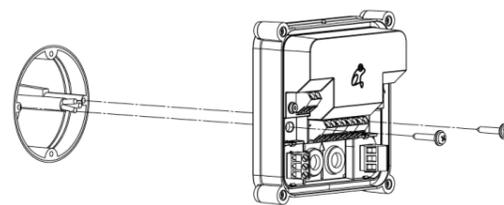
#### Installing the device

Loosen four screws and remove the cover.

Insert the sealing plugs flat side outwards into the two openings on the bottom part.

Using a screwdriver 0.8 x 4 cm, punch a hole in sealing plugs into which a cable is to be inserted. Only punch a hole in sealing plugs which will receive a cable. Only one cable per sealing plug may be inserted.

#### Installation on a flush-mounted socket



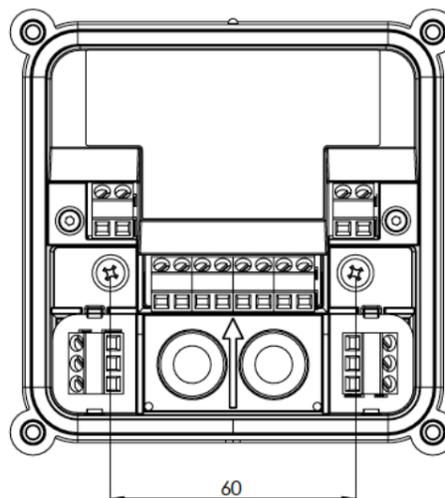
Push the mains cable through the sealing plug and connect the device. Make sure that the device is positioned correctly.

Hold the housing on the flush-mounted socket and fasten it with the provided screws (3.5x22).

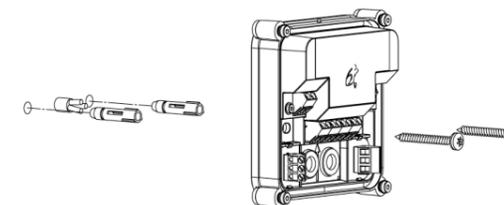
Attach the cover again with the 4 screws. Note the correct torque (130 cNm).

#### On-wall installation

Hold it on the wall and mark the holes to be drilled. Observe the existing line layout in the wall. (The dimensions for the holes are marked on the bottom part or are stated below.)



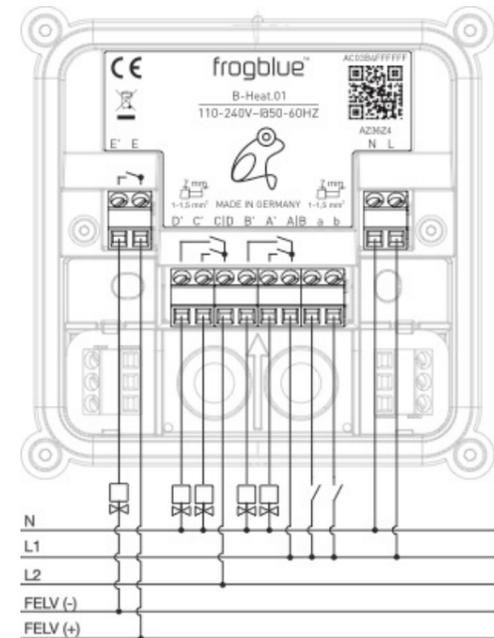
Drill the holes with an 8 mm drill bit and insert a wall plug (Ø 8 mm).



Push the cable of the mains supply through the sealing plug and connect the device. Make sure that the device is positioned correctly. Fasten it to the wall with the provided screws (5x50). Attach the cover again with the 4 screws. Note the correct torque (130 cNm).

## Connecting the device

For example



#### Stripping length



Ø 1 to 1.5 mm<sup>2</sup>; rigid conductor recommended

#### Technical data

Mains voltage 110–240 V AC~  
Power frequency 50/60 Hz

Inputs 2, 110–240 V~

Outputs 5 floating,  
in 3 galvanically isolated circuits

Per circuit:  
max. 6 A/30 V DC (FELV)  
max. 6 A/110–240 V AC

Contact type µ, N/O contact

Bluetooth Bluetooth 4.2 Low Energy

Frequency range 2400–2483.5 MHz,  
max. 5.0 dBm

Ambient temperature -25 to +60 °C  
Storage/transportation temperature -25 to +70 °C  
IP protection class IP56

The IP protection class only applies if the product is installed correctly in conjunction with the cover and the cable and external seals.

Dimensions (L x W x H) 114 x 114 x 44 mm  
Connection type screw-type terminal  
Mains cable conductor cross-section 1 to 1.5 mm<sup>2</sup>  
Input conductor cross-section 1 to 1.5 mm<sup>2</sup>

Subject to technical changes.

#### Warranty

The warranty is provided by specialist dealers within the framework of the statutory provisions.

#### Declaration of conformity

frogblue AG, Luxemburger 6, 67657 Kaiserslautern, Germany, hereby declares that this product complies with the fundamental requirements and other relevant conditions of the Directives.

2014/53/EU RED Directive  
2011/65/EU RoHS Directive

A copy of the declaration of conformity is available at: [www.frogblue.com](http://www.frogblue.com)