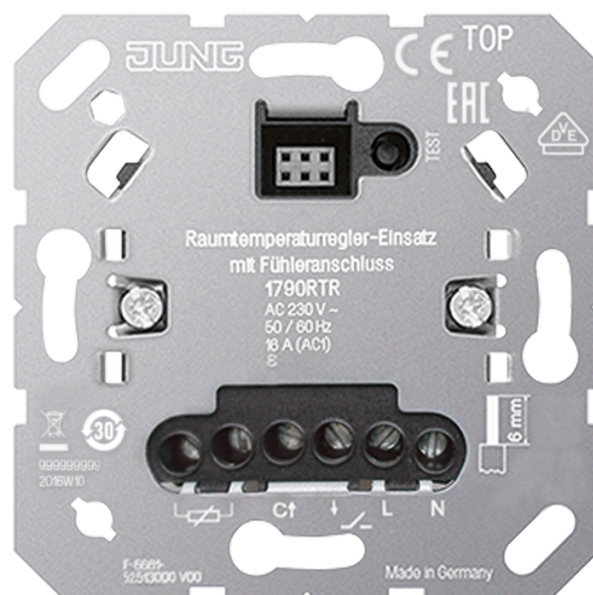


## Operating instructions

Room thermostat insert  
Art. no. 1790RTR



**ALBRECHT JUNG GMBH & CO. KG**  
Volmestraße 1  
58579 Schalksmühle  
GERMANY

Telefon: +49 2355 806-0  
Telefax: +49 2355 806-204  
kundencenter@jung.de  
www.jung.de

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## 1 Safety instructions



Electrical devices may only be mounted and connected by electrically skilled persons.

Serious injuries, fire or property damage possible. Please read and follow manual fully.

Danger of electric shock. Always disconnect before carrying out work on the device or load.

Danger of electric shock. A connected remote sensor is connected to mains potential. Only use the remote sensor listed under Accessories. Replace remote sensor with damaged insulation immediately.

This manual is an integral part of the product, and must remain with the end customer.

## 2 Intended use

- Switching of electric underfloor heating systems and electrothermal valve drives
- Operation with room thermostat cover from the systems LB management and JUNG HOME
- Operation with KNX RF push-button
- Mounting in appliance box with dimensions according to DIN 49073

## 3 Product characteristics

- Output signal: pulse width modulation (PWM) or two-point control (on/off)
- Enables connection of a remote sensor (accessory)
- Input for switching to cooling mode
- TEST button for switching without cover (overheating protection: forced switch-off after 60 minutes)

## 4 Information for electrically skilled persons



### **DANGER!**

Mortal danger of electric shock.

Disconnect the device. Cover up live parts.

### Connecting and fitting the device

Recommended installation height: 1.50 m.



When using the integrated temperature sensor of the cover: Do not mount near sources of interference, such as electric cookers, refrigerators, draughts or direct sunlight. This influences the temperature measurement of the cover.

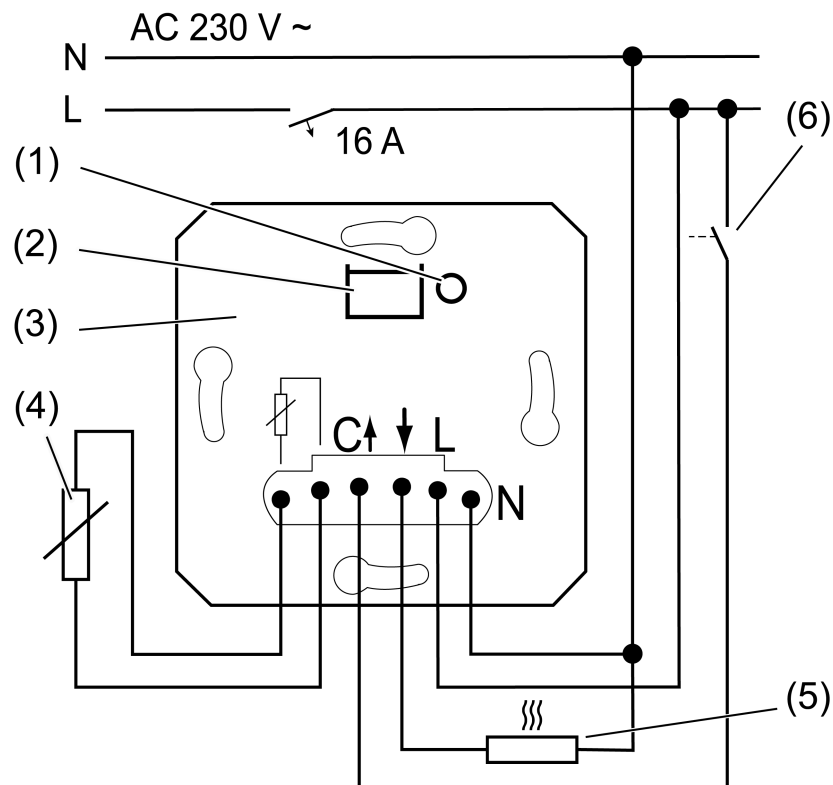


Image 1: Connection example of the insert

- (1) Button **TEST**
- (2) Cover interface with LED
- (3) Insert
- (4) Remote sensor for external temperature measurement
- (5) Electric underfloor heating or electrothermal valve drive
- (6) Switching contact for switching to cooling mode (optional)

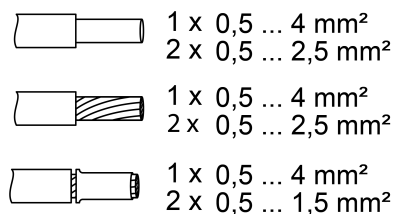


Image 2: Terminal-specific cable cross-section

- Connect insert (3) according to the connection diagram (see figure 1). Note clampable cable cross-sections (see figure 2).
- Optionally connecting external remote sensor (4) (accessory).
- Install insert in appliance box, device connection terminals must be at the bottom.
- Attach the frame and the cover.
- Switch on mains voltage.

**i** The load can be switched by briefly pressing the **TEST** button (1). LED (2) lights up when the load is switched on.

- i** If 230 V is applied to input C, cooling mode is active.
- i** The insert works exclusively with the KNX RF push-button and room thermostat covers. All other covers are without function.

## 5 Technical data

Rated voltage	AC 230 V ~
Mains frequency	50 / 60 Hz
Switching current	max. 16 A (AC1)
Standby load depending on the cover	approx. 0.1 ... 0.5 W
Connected load	max. 3600 W
Ambient temperature	-5 ... +45 °C

## 6 Accessories

External sensor	Art. no. FF7.8
External temperature sensor	Art. no. FFNTC
Thermal valve drive 230 V	Art. no. TSA230NCWW

## 7 Warranty

The warranty is provided in accordance with statutory requirements via the specialist trade.

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