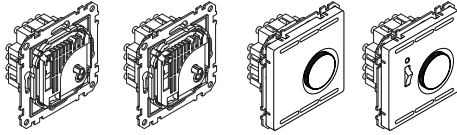


Room temperature control unit insert

User Guide



Room temperature control unit insert with changeover contact

Art. no. 536400/MTN536400 (230 V)

Room temperature control unit insert with changeover contact

Art. no. 536401 (24 V)

Room temperature control unit insert with switch

Art. no. 536302/MTN536302 (230 V)

Room temperature control unit insert with switch

Art. no. 536304 (24 V)

Room temperature control unit insert

Art. no. MEG5773-0000 (230 V)

System design

Room temperature control unit 230 V with switch and central plate

Art. no. MEG5760-60..

Room temperature control unit 24 V with switch and central plate

Art. no. MEG5761-60..

Room temperature control unit 230 V with changeover contact and central plate

Art. no. MEG5762-60..

Room temperature control unit 24 V with changeover contact and central plate

Art. no. MEG5763-60..

Necessary accessories

- To be completed with:
 - corresponding inserts (see function overview)
 - Frame in corresponding design

For your safety

⚠ ⚠ DANGER

HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH

Safe electrical installation must be carried out only by skilled professionals. Skilled professionals must prove profound knowledge in the following areas:

- Connecting to installation networks
- Connecting several electrical devices
- Laying electric cables
- Safety standards, local wiring rules and regulations

Failure to follow these instructions will result in death or serious injury.

⚠ ⚠ DANGER

HAZARD OF ELECTRIC SHOCK

The protective insulation conforms to IEC/EN 60730-1 when correctly installed on a level, non-conductive, non-flammable surface.

Failure to follow these instructions will result in death or serious injury.

Notice

HAZARD OF EQUIPMENT DAMAGE

- Ensure that the device is disconnected from its circuit during the insulation resistance test..

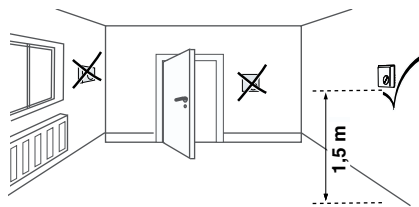
Failure to follow these instructions can damage the device.

Introduction to the room temperature control unit

The freely mountable electromechanical room temperature control unit insert (referred to as **insert** from here on) is used to control the temperature in dry and enclosed spaces, such as flats, schools, halls, workshops, etc., with normal ambient conditions.

Selecting an installation site

- Installation on interior walls opposite the heat source is preferable.
- Mounting height: approx. 1.5 m above the floor.
- External walls and draughts from windows and doors should be avoided.
- Ensure that the warm air in the room has free access to the insert. To this end, the insert should not be installed inside shelving units or behind curtains and similar coverings.



- External sources of heat have a negative effect on the accuracy of the control unit. Therefore, avoid direct sunlight, proximity to televisions, radio and heating appliances, lamps, fireplaces and heating pipes.
- A dimmer generates heat too!
If the insert is installed with a dimmer in a shared switch frame, the two should be as far apart as possible. If they are arranged one on top of the other, the insert must be below the dimmer.

Installing the insert

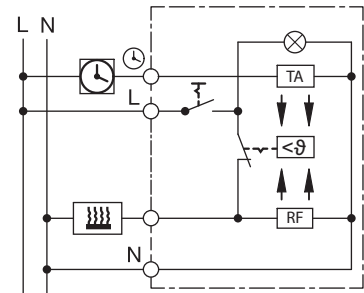
- ① Wire the insert according to the corresponding circuit diagram.

i Observe the following:

- Ensure that neutral conductor N is connected to terminal N. If it isn't, this will result in significant temperature fluctuations because the insert is not able to work properly.
- When using conductors with a cross-section of 2.5 mm², we recommend using deep installation boxes to make installation easier.
- A protective conductor does not have to be connected as the insert is insulated.
- LED on = insert switched on

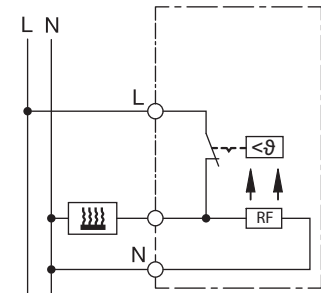
Circuit diagram for insert with switch

MEG5760-60.. / MEG5761-60.. / 536302/MTN536302 / 536304



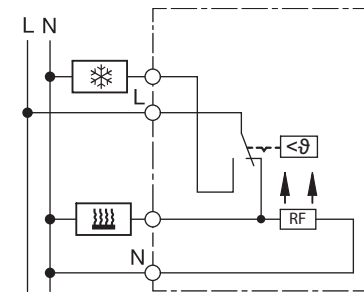
Circuit diagram for insert without switch

MEG5773-0000



Circuit diagram for insert with changeover contact

MEG5762-60.. / MEG5763-60.. / 536400/MTN536400 / 536401



Symbol Explanation:

L Outer conductor (phase)

N Neutral conductor

Connection for timer signal for temperature reduction

Load connection for heating

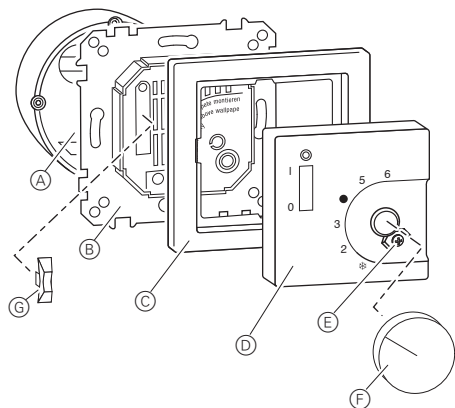
Load connection for cooling

RF Resistor for thermal feedback

TA Resistor for reducing the room temperature at night

② Installing the insert

i To ensure that the insert functions properly, the support ring must always be fitted on a finished wall. It must not be wallpapered over, for example.



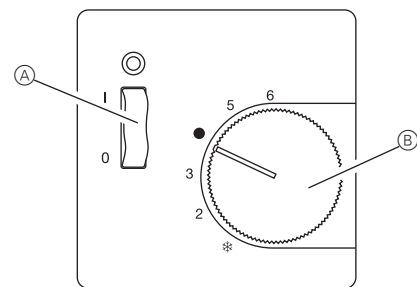
- ③ Insert rocker switch **G** into the switch base (for 536302/MTN536302, 536304, MEG5760-60.. and MEG5761-60.. only).
- ④ Place frame **C** and central plate **D** on the insert and fasten using screw **E**.
- ⑤ Push on setting knob **F**.

Commissioning the insert

When commissioning the insert, be aware that the bimetallic element needs time to adjust to the room temperature. Therefore the switching point will deviate from the room temperature directly after installation or after night economy is switched off. The switching point becomes accurate after approx. 1 to 2 hours of operating time.

We therefore recommend an initial set temperature that is higher than actually required so that initial heating and initial temperature equalisation are faster. After the temperature has been reached, the temperature setting can be set to the setpoint value required.

Operating the insert



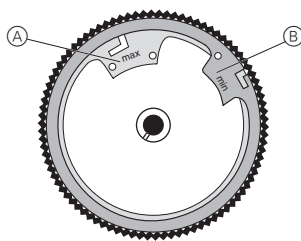
- A** On/off switch (for 536302/MTN536302, 536304, MEG5760-60.. and MEG5761-60.. only)
- B** Setting knob for temperature preselection

Use the setting knob to set the temperature required. The scale corresponds to a temperature range of approx. 5 to 30°C.

Temperature setting scale with symbols/numbers

	= approx. 5°C		= approx. 20°C
2	= approx. 10°C	5	= approx. 25°C
3	= approx. 15°C	6	= approx. 30°C

Limiting the temperature adjustment range



- A** Red ring (max.): highest temperature that can be set
 - B** Blue ring (min.): lowest temperature that can be set
- The insert is factory-set to a maximum adjustment range of 5 to 30°C.

There are 2 adjusting rings in the setting knob. These can be used to limit the temperature adjustment range within the minimum and maximum values.

Setting procedure

- ① Turn the setting knob to roughly the middle of the required adjustment range.
- ② Remove the setting knob.
- ③ Insert the tip of a ballpoint pen into the hole and turn the ring to the required temperature limit.
The red adjusting ring needs to be turned anticlockwise.
The blue adjusting ring needs to be turned clockwise.
- ④ Put the setting knob back on.

Technical data

Type:	536302/MTN536302 MEG5760-60..
Special features:	Mains switch Mains light Temperature reduction
Contact:	Break contact
Temperature range:	5-30°C
Nominal voltage:	AC 230 V
Heating nominal current:	10(4) A
Heating switching capacity:	2.2 kW
Differential gap:	~0.5 K
Temperature reduction:	~4 K

Type:	536304 MEG5761-60..
Special features:	Mains switch Mains light Temperature reduction
Contact:	Break contact
Temperature range:	5-30°C
Nominal voltage:	AC 24 V
Heating nominal current:	10(4) A
Heating switching capacity:	240 W DC max. 100 W
Differential gap:	~0.5 K
Temperature reduction:	~4 K

Type:	MEG5773-0000
Contact:	Break contact
Temperature range:	5-30°C
Nominal voltage:	AC 230 V
Heating nominal current:	10(4) A
Heating switching capacity:	2.2 kW
Differential gap:	~0.5 K

Type:	536400/MTN536400 MEG5762-60..
Contact:	Changeover contact
Temperature range:	5-30°C
Nominal voltage:	AC 230 V
Nominal current	
Heating:	10(4) A
Cooling:	5(2) A
Switching capacity	
Heating:	2.2 kW
Cooling:	1.1 kW
Differential gap:	~0.5 K

Type:	536401 MEG5763-60..
Contact:	Changeover contact
Temperature range:	5-30°C
Nominal voltage:	AC 24 V
Nominal current	
Heating:	10(4) A
Cooling:	5(2) A
Switching capacity	
Heating:	240 W DC max. 30 W
Cooling:	120 W DC max. 30 W
Differential gap:	~0.5 K

Type:	All
Ambient temperature:	0-55°C
Degree of contamination:	2
Rated surge voltage:	4 kV
Voltage and current for EMC emitted interference test purposes:	230 V, 0.1 A
Permitted relative room humidity:	max. 95%, non-condensing

Energy class:	I = 1%
Mode of operation:	1 C
Protection class:	II (once the cover has been fitted)
Connecting terminals:	Plug-in terminals for 1 to 2.5 mm ² solid conductors



Dispose of the device separately from household waste at an official collection point. Professional recycling protects people and the environment against potential negative effects.

Merten GmbH

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se.com/contact

Schneider
Electric