

## EGT 430: Room-temperature sensor with platinum measuring element

### How energy efficiency is improved

Accurate detection of room temperature for energy-efficient control of HVAC systems and monitoring energy consumption.

### Areas of application

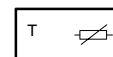
Temperature detection for heating and air conditioning systems in dry rooms, e.g. residential, office and business premises.

### Features

- Passive measured value acquisition
- Temperature detection in dry rooms
- Cable infeed at rear

### Technical description

- Platinum thin-film sensor as per EN 60751
- Housing made of pure white, fire-retardant thermoplastic (RAL 9010)
- Screw terminals forwires up to 1.5 mm<sup>2</sup>



Y04579

Type	Nominal value at 0 °C	Measuring range °C	Weight kg
EGT 430 F011	100 Ω	-20...60	0.1
EGT 430 F101	1000 Ω	-20...60	0.1

Resistance values as per Tolerance at 0 °C	EN 60751, class B ± 0.3 K	Degree of protection	IP 30 (EN 60529)
Average temp. coefficient	0.00385 K <sup>-1</sup>	Wiring diagram	<a href="#">A01632</a>
Self-heating	0.17 K/mW	Dimension drawing	<a href="#">M07634</a>
Time behaviour in still air		Fitting instructions	MV 505479
Dead time	50 s		
Time constant	18 min		

### Accessories

- [0303124 000](#)\* Recessed junction box  
[0313347 001](#)\* Intermediate cover plate 76 × 76 mm

\*) Dimension drawing or wiring diagram are available under the same number

### Operation

The resistance of the measuring resistor changes in relation to the temperature. The temperature coefficient is always positive, i.e. the resistance increases as the temperature rises. The Pt characteristic is described in EN 60751. The elements are interchangeable within the bounds of the given tolerances.

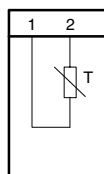
### Engineering and fitting notes

The temperature sensor should not be exposed directly to sources of heat, the effects of radiation or draughts. With a temperature difference of 5 K between wall and air at a distance of approx. 1 m, there is an error of 1 K.

### Additional technical data

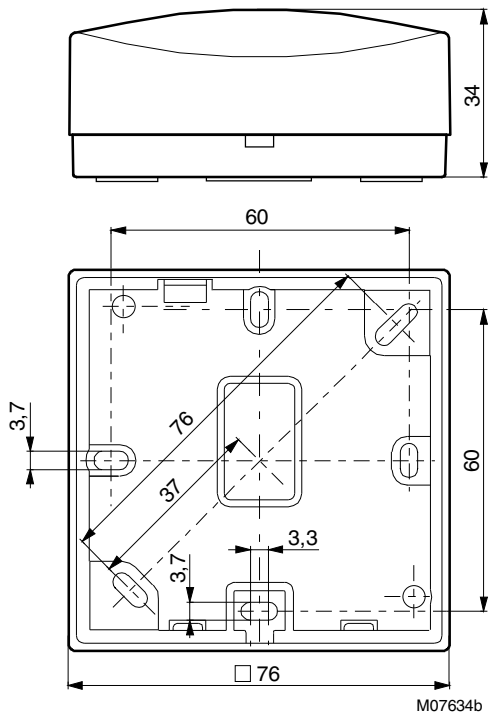
Complies with:	
EMC Directive 2004/108/EC	EN 61000-6-1/ EN 61000-6-2 EN 61000-6-3/ EN 61000-6-4

### Wiring diagram



A01632

Dimension drawing



Accessories

