

EGT 330...335: Room-temperature sensor

How energy efficiency is improved

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

Areas of application

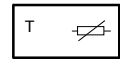
Temperature detection for heating and air conditioning systems in dry rooms, for example residential, office and business premises.

Features

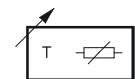
- Passive measured value acquisition
- Temperature detection in dry rooms
- Versions with setpoint adjuster, presence button and status LED
- Parameterise with SAUTER EY3600 or a SAUTER Flexotron controller (EGT 332)
- Integrated resistor (EGT 333) which, in combination with Equitherm controllers, corrects the setpoint with or without room temperature influence

Technical description

- With nickel thin-film sensor as per DIN 43760
- Housing made of pure white, fire-retardant thermoplastic (RAL 9010)
- Cable inlet at rear, screw terminals for wires up to 1,5 mm²



Y04579



Y01841a

Type	Nominal value at 0 °C	Adjuster	Remarks	Measuring range °C	Weight kg
EGT 330 F021	200 Ω	–	–	–20...60	0.1
EGT 330 F051	500 Ω	–	–	–20...60	0.1
EGT 330 F101	1000 Ω	–	–	–20...60	0.1
EGT 332 F101	1000 Ω	2.5 kΩ	for Flexotron 2) +DDC	–20...60	0.1
EGT 333 F101	1000 Ω 1)	± 4 K	for Equitherm+RDT7 . .	–20...60	0.1
With occupancy key, 3 LEDs					
EGT 335 F101	1000 Ω	2,5 kΩ	for DDC	–20...60	0.1
Resistance values as per Tolerance at 0 °C		DIN 43760 ± 0,4 K	Degree of protection		IP 30 (EN 60529)
Average temp. coefficient		0,00618 K ⁻¹	Wiring diagram		
Self-heating		0.17 K/mW	EGT 330 A01632		
			EGT 332, 335 A06951		
			EGT 333 A06952		
Time behaviour in still air			Dimension drawing M07634		
Dead time		50 s	Fitting instructions MV 505479		
Time constant		18 min	EGT 333 MV 505530		

Accessories

- [0303124 000*](#) Recessed junction box
[0313347 001*](#) Intermediate cover plate for 76 × 76
[0369829 100](#) Neutral housing, pure white

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

- 1) 1000 Ω when correction knob is in middle position
 2) Not for flexotron 100

Operation

The resistance of the nickel measuring resistor changes in relation to the temperature. The temperature coefficient is always positive, i.e. the resistance increases as the temperature rises. Table of values (DIN 43760). The elements are interchangeable within the bounds of the given tolerances.

EGT 332

In addition to the measuring resistor, a potentiometer of 2.5 kΩ is fitted. In conjunction with DDC or a Flexotron controller, the setpoint can be universally parameterised.

EGT 333

A potentiometer of 47 Ω for varying the measured value by ± 4 K – is fitted in series to the resistor. Depending on the connection to an Equitherm controller, the setpoint can be corrected either with or without influencing the room temperature.

EGT 335

As EGT 332, but with occupancy key and a yellow LED for operation plus two green LEDs for status for ½ and 1. Bridges BR1 and BR2 should be opened if the sensor's earth should be separated. Contacts S1 become potential-free if BR3 is opened.

Engineering and fitting notes

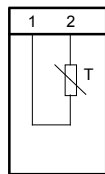
The temperature sensor should not be exposed directly to sources of heat, the effects of radiation or draughts. With a temperature difference of 5 K between wall and air at a distance of approx. 1 m, there is an error of 1 K.

Additional technical data

CE conformity as per EMC Directive 2004/108/EC	EN 61000-6-1/ EN 61000-6-2 EN 61000-6-3/ EN 61000-6-4
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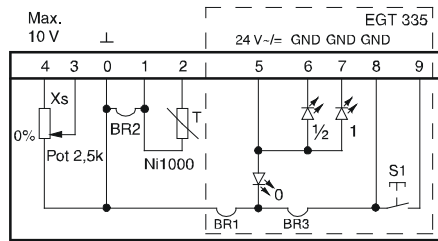
Wiring diagram

EGT 330



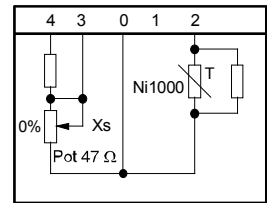
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EGT 332 (EGT 335)



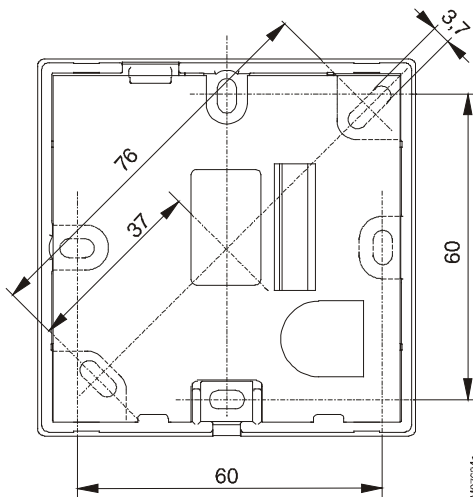
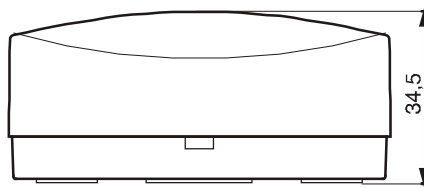
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EGT 333



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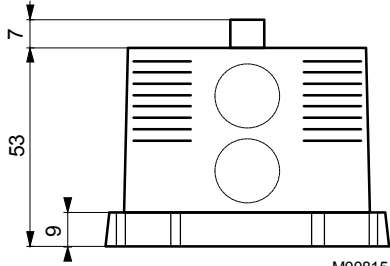
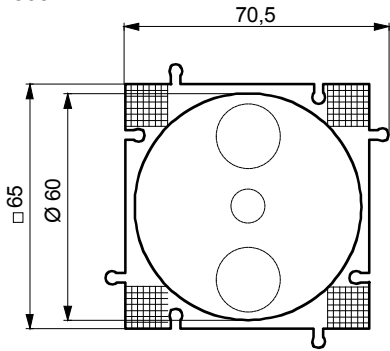
Dimension drawing



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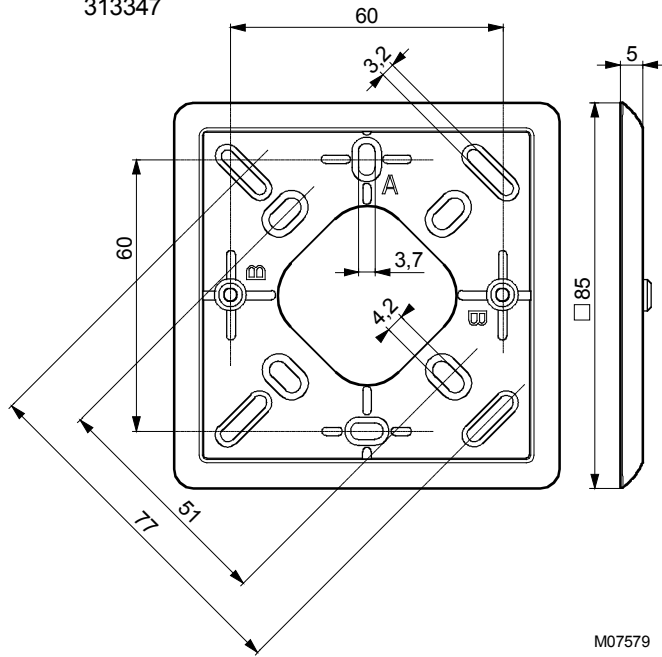
Accessories

303124



M00815

313347



M07579