

EGT 401: Outside-temperature detector with platinum measuring element

How energy efficiency is improved

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

Areas of application

Outside temperature measurement, e.g. for weather-compensated heating systems.

Features

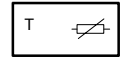
- Particular protection against dust and humidity (Degree of protection IP 54)
- Pure white thermoplastic housing
- Passive measured value acquisition
- Cable infeed at rear or from underneath

Technical description

- Measurement is effected with a platinum thin-film sensor as per EN 60751
- Screw terminals for wires up to 1.5 mm²



T05083



Y04579

Type	Nominal value at 0°C	Measuring range °C	Weight kg
EGT 401 F101	1000 Ω	-50...80	0.1
Resistance values as per Tolerance at 0 °C	EN 60751, Class B ± 0.3 K	Degree of protection	IP 54 (EN 60529)
Mean temp. coefficient	0.00385 K ⁻¹	Wiring diagram	A01632
Self-warming	0.2 K/mW	Dimension drawing	M04686
Time characteristic in air	Dead time Time const.	Fitting instructions	MV 505377
still	1,5 min 10 min		
moving (1 m/s)	1 min 6 min		

Accessories

0370560 011 Cable screw fitting Pg 11; of thermoplastic; for cable Ø 9...11 mm

Operation

The resistance value of the platinum measuring resistor changes with respect to temperature. The temperature coefficient is always positive, i.e. the resistance value increases as the temperature rises. See EN 60751 for Pt curve. The elements are exchangeable (within the limits of the prescribed tolerances).

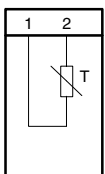
Engineering and fitting notes

Suitable for either surface or recessed fitting. The external sensor should not be exposed to direct sunlight and should not be fitted above windows or ventilation outlets, or next to chimney flues or other heat sources.

Additional technical data

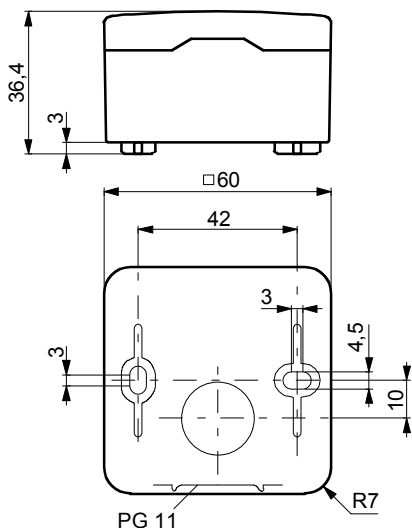
Complies with:	
EMC Directive 2004/108/EC	EN 61000-6-1/ EN 61000-6-2 EN 61000-6-3/ EN 61000-6-4

Wiring diagram



A01632

Dimension drawing



M04686

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