

EGT 411: Clamp-on temperature detector with platinum measuring element

How energy efficiency is improved

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

Areas of application

Temperature measurement on pipelines.

Features

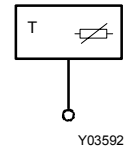
- Flame-retardant black and yellow thermoplastic housing
- Passive measured value acquisition
- Strap retainer for pipe \varnothing 10 to 100 mm
- Heat conducting paste included in scope of supply

Technical description

- Measurement is effected with a spring-loaded, platinum thin-film sensor as per EN 60751
- Cable clamping sleeve Pg11
- Screw terminals for wires up to 1.5 mm²



T09061



Y03592

Type	Nominal value at 0 °C	Measuring range °C	Weight kg
EGT 411 F101	1000 Ω	-30...130	0.1
Resistance values as per Tolerance at 0 °C	EN 60751, Class B ± 0.3 K	Max. temp. at head Degree of protection	80 °C IP 42 (EN 60529)
Mean temp. coefficient	0.00385 K ⁻¹	Wiring diagram	A01632
Self-warming	0.1 K/mW	Dimension drawing	M07664
Time characteristic (water 1 m/s) ¹⁾		Fitting instructions	MV 505496
Dead time	1 s		
Time constant	9 s		

1) With heat-conducting paste

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.

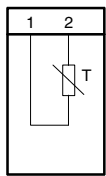
Engineering and fitting notes

Do not use pipes of more than 50 mm diameter, since layer of heat may arise; use stem or cable sensors with pocket. Heat-conducting paste should be spread onto the active copper surface and the sensor fixed with the band (quick-release mechanism) to the pipe at a spot where the metal is bare.

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

