

ELECTRONIC HEAT DETECTOR TMP2

INTELLIGENT HEAT DETECTION OVER TEMPERATURE AND SUPPRESSION RELEASE DEVICES

TMP2 series Fire and Overheat Detectors includes electronic circuit for signal conditioning generated by the transducer.

The electrical signal is transformed into an engineered output with different interface solutions. The electronic card, reduced to the minimum size, is made using SMT technology and placed directly into the unit probe.

FEATURES

High reliability, dependable long-life.

Immune from EMI disturbances, virtually eliminate false alarms.

Temperature set-point levels from **-20°C up to 120°C**.

Different output configurations. **Rate of Rise or Static feature.**

Self-diagnosis procedure.

Two wires technology.

Very Low Power Consumption (about 20 uA)

Programmable LED for Status indication

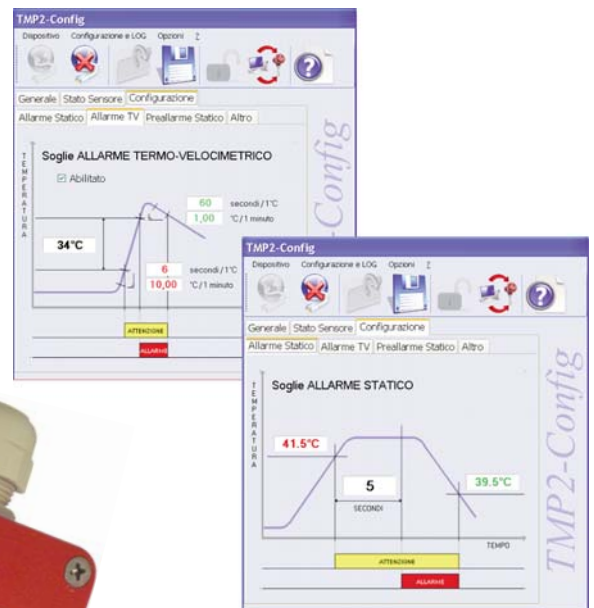


"TMP2-Config": NEW diagnostic and configuration software for:

- Monitoring of sensors and detector functions
- Alarm Temperature Levels setting
- **Temperature Class setting according to EN54-5**
- Static or Rate of Rise functionality setting
- LED functioning mode setting
- Alarm Status setting (Latched or Reflex)
- Service time counter
- Number of events counter
- General information: sensor status, reset, power ON and power OFF

APPLICATIONS:

Commercial and Industrial plants
 Suitable for use in explosive atmospheres
 Hazard material stores
 Extraction ducts
Certificate ATEX II 2G EEx-d IIC T6

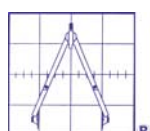


TMP2 detectors are sturdy, shock and vibration resistant and are compatible with any fire alarm control panel on the market.

TMP2 detectors are particularly suitable in dangerous environmental conditions such as in presence of corrosive elements or condensing steams.

TMP2 detectors comply with the specific response and environmental test requirements of the European Standard EN54-5.





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CONFIGURATIONS

Model	Box Type	Temperature Class	Mode	Led Status	Alarm config.
TMP2		<ul style="list-style-type: none"> — A1 = Static alarm 54-65°C — A2 = Static alarm 54-70°C — B = Static alarm 69-85°C — C = Static alarm 84-100°C — D = Static alarm 99-115°C — E = Static alarm 114-130°C 	<ul style="list-style-type: none"> — R = Static & Rate of Rise — S = Static 	<ul style="list-style-type: none"> — 1 = OFF in normal condition ON in Alarm condition — 2 = PULSE in normal condition OFF in Fault condition ON in Alarm condition 	<ul style="list-style-type: none"> — M = Manual Reset — A = Auto Reset
J = Atex 1 way 1/2" connection box					
T = Atex 2 ways T 1/2" connection box					
JO = Atex 1 way connection box with glass					
TO = Atex 2 ways T connection box with glass					
D = Aluminium housing IP65					
P = Only probe without housing					

Example of J or T box	Example of JO or TO box	Example of D box	Example of P (Probe)
			

Example of product code creation:
 Heat detector ATEX certified Tbox with glass, Temp. class C with alarm intervention at 90°C static with pulse LED and Auto Reset alarm:
 Code: **TMP2-TO-C90S2A**
 Heat detector Dust box, Temp. class A2 with alarm intervention at 57°C Rate of Rise with OFF LED in normal condition and Auto Reset alarm:
 Code: **TMP2-D-A257R1A**

SPECIFICATIONS

Sensor	Semi-conductor
Temperature Range	-20°C → +120°C
Code of Protection	ATEX II 2G EEx-d IIC T6
Protection Degree	IP65 (Probe IP67)
Location	Hazardous area
Short-term repeatability	±2% FSD 60 min.
Long-term repeatability	±3% FSD 3 months.
Accuracy (linearity)	±1% FSD

Electrical Specifications

Supply Voltage	10-30 Vdc
Supply current	about 20/30 uA in normal conditions
	> 20 mA in alarm cond.
Supply fuse	50 mA
Connection	2 conductors cable

Environmental Specifications

EMC	According EN61000-4
Storage temperature	-40 to 85 °C
Operating temperature	-20 to 120 °C
Humidity range	90% R.H. n.c.

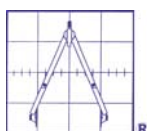
Mechanical Specifications

Overall dimensions	170x100x70 mm
Weight	150 g.
Mounting	2x6 mm holes
Termination EEx-d	Cable Holder
Probe attachment	1/2" Conical thread UNI6125
Junction box attachment	1/2" Conical thread UNI6125

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