

# 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

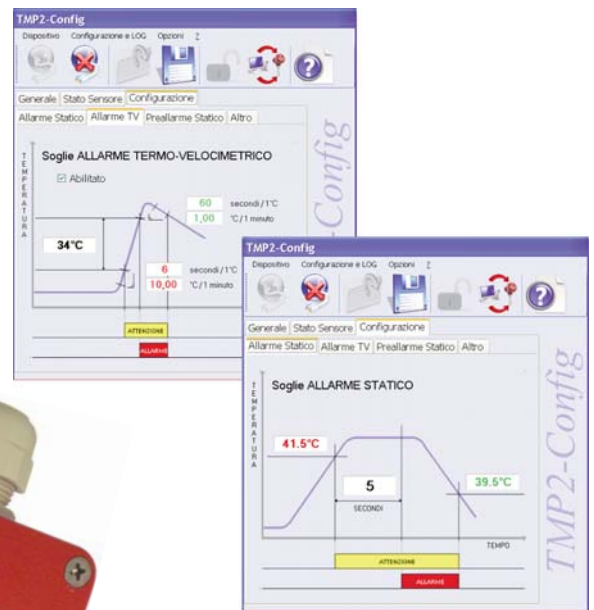


**"TMP2-Config": NEW diagnostic and configuration software for:**

- 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 Ex 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 are certified according to the European Standard EN54-5.**

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## CONFIGURATIONS

Model	Box Type	Temperature Class	Mode	Led Status	Alarm config.
<b>TMP2</b>					
<b>J</b> = Atex 1 way 1/2" connection box		<b>A1</b> = Static alarm 54-65°C			<b>M</b> = Manual Reset
<b>T</b> = Atex 2 ways T 1/2" connection box		<b>A2</b> = Static alarm 54-70°C			<b>A</b> = Auto Reset
<b>JO</b> = Atex 1 way connection box with glass		<b>B</b> = Static alarm 69-85°C			
<b>TO</b> = Atex 2 ways T connection box with glass		<b>C</b> = Static alarm 84-100°C		<b>1</b> = OFF in normal condition ON in Alarm condition	
<b>D</b> = Aluminium housing IP65		<b>D</b> = Static alarm 99-115°C		<b>2</b> = PULSE in normal condition OFF in Fault condition ON in Alarm condition	
<b>P</b> = Only probe without housing		<b>E</b> = Static alarm 114-130°C	<b>R</b> = Static & Rate of Rise		
			<b>S</b> = Static		

Example of <b>J</b> or <b>T</b> box	Example of <b>JO</b> or <b>TO</b> box	Example of <b>D</b> box	Example of <b>P</b> (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 Ex 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.

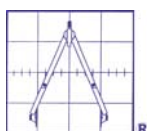
### Mechanical Specifications

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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