ELECTRONIC HEAT DETECTOR
TMP2

FEATURES

- Interactive
- To be used in industrial hazardous areas
- Protective PCB coating
- Short circuit isolator
- Conforms to EMC directive
- Immune to electromagnetic disturbance
- High reliability due to Self-diagnosis procedure
- Programmable LED for status indication
- Two wires technology
- Low power consumption
- Temperature set-point levels from **-20°C up to 110°C**.
- Configurable classes A1, A2, B, C, D
- Different output configurations. Static and/or Rate of Rise
- Proven technology
- Not influenced by dust, humidity, exhaust gases.
- EN54-5 CPR Certified
- Tested with internat climatic tunnel on production line
- shock and vibration resistant

APPLICATIONS

- Commercial and Industrial plants
- Suitable for use in hazardous atmospheres Zone 1 and Zone 2
- suitable in dangerous environmental conditions such as in presence of corrosive elements or condensing steams
- Refineries and Hazard material stores
- Extraction ducts
- Boiler rooms
- Workshops
- Refrigeration rooms
- Designed to be used with all conventional fire detection Systems
- **Certificate ATEX II 2G Ex d IIC T6**
- **Certificate EN54-5 CPR**

CESI 03 ATEX 042

0068-CPR-009/2014

TECHNICAL SPECIFICATIONS

Sensor	Semi-conductor
Temperature Range	-20°C to +110°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

Environmental Specifications

EMC	According EN61000-4
Storage temperature	-40 to 85 °C
Operating temperature	-20 to 110 °C
Humidity range	90% R.H. n.c.

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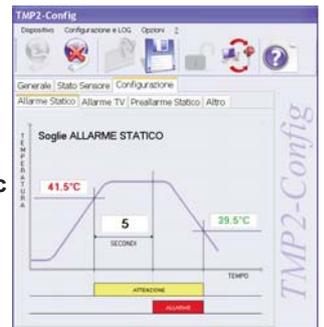
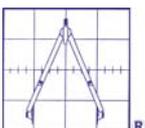|	
Supply Voltage	10-30 Vdc
Supply current	about 20/30 uA in normal conditions > 20 mA in alarm cond.
Supply fuse	50 mA
Connection	2 conductors cable

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

"**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

CONFIGURATIONS

Model	Box Type	Temperature Class	Mode	Led Status	Alarm config.

TMP2

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

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

R = Static & Rate of Rise
S = Static

1 = OFF in normal condition
ON in Alarm condition

2 = PULSE in normal condition
OFF in Fault condition
ON in Alarm condition

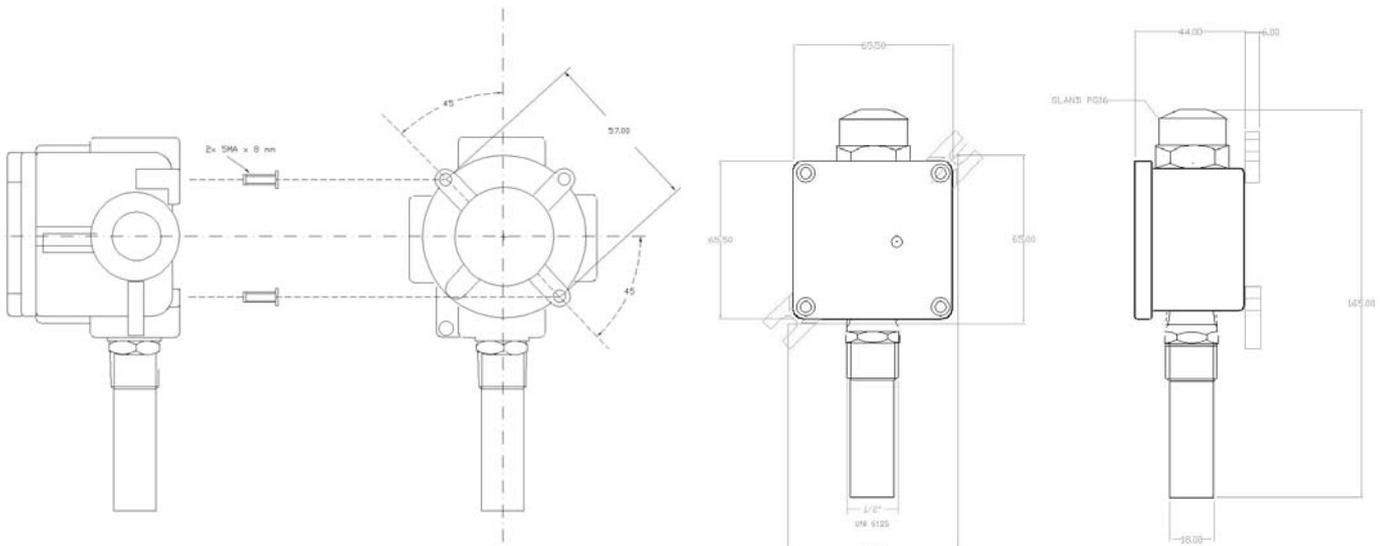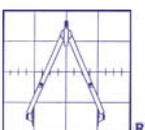| Example of **J** or **T** box	Example of **JO** or **TO** box	Example of **D** box	Example of **P** (Probe)
Not suitable for Fire Detection	Suitable for Fire Detection	Suitable for Fire Detection	Not suitable for Fire Detection

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**

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