

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 internal climatic tunnel on production line
- shock and vibration resistant



CESI 03 ATEX 042



0068-CPR-009/2014

APPLICATIONS

- Commercial and Industrial plants
- Hazardous atmospheres (Classified areas Zone 1 and Zone 2)
- Suitable in dangerous environmental conditions such as in presence of corrosive elements or condensing steams
- Suitable to be used with all Conventional Fire Detection Systems

Especially suitable for:

- Refineries and Hazardous material stores
- Extraction ducts
- Boiler rooms
- Workshops
- Oil & Gas plants
- Pumping rooms
- Refrigeration cells

TECHNICAL SPECIFICATIONS

| | |
|--------------------------|------------------------|
| Sensor | Semi-conductor |
| Temperature Range | -20°C to +110°C |
| Code of Protection | ATEX II 2G Ex d IIC T6 |
| Protection Degree | IP66 (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 |

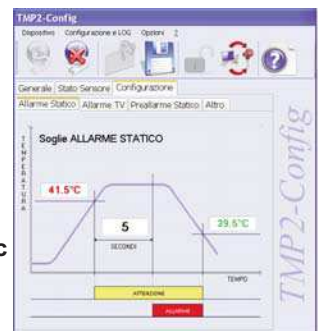
Mechanical Specifications

| | |
|-------------------------|--|
| Overall dimensions | ATEX version: 160x85x75 mm DUST version: 203x95x60 mm |
| Weight: | ATEX version: 410 g. DUST version: 400 g. |
| Mounting | 2x6 mm holes |
| Termination Ex d | Cable Holder |
| Probe attachment | 1/2" NPT |
| Junction box attachment | ATEX version: 1/2" NPT DUST version: 2 x M20 Cable Holder (Cables diameter 6 to 13 mm) |
| Probe Ext. connection | 1/2" GAS ISO 228 B |

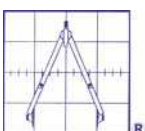
- Certificate ATEX II 2G Ex d IIC T6
- Certificate EN54-5 CPR

"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



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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 | <ul style="list-style-type: none"> R = Static & Rate of Rise S = Static | | <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 | | | | | |
| <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 | | | | | |

Example of **J** or **T** box




Not suitable for Fire Detection

Example of **JO** or **TO** box




Suitable for Fire Detection

Example of **D** box



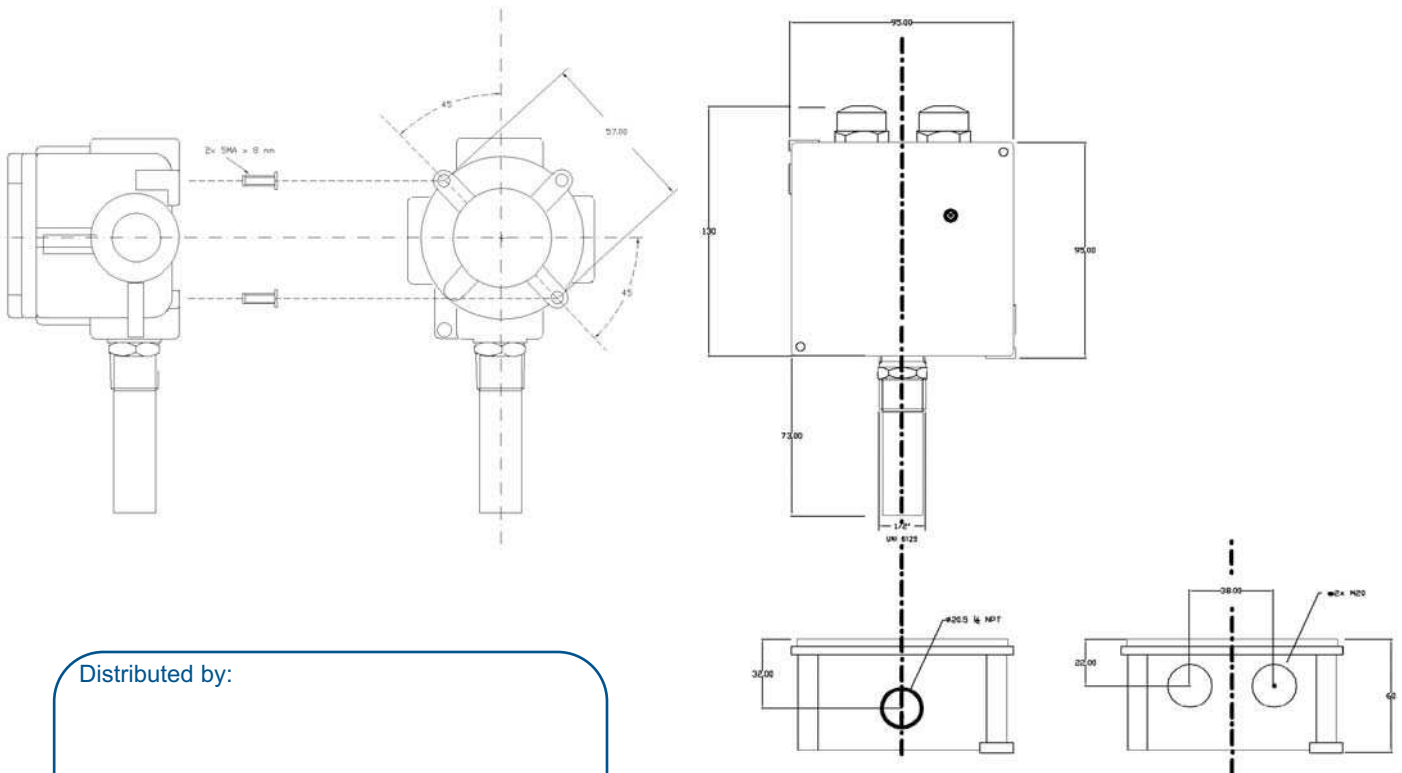
Suitable for Fire Detection

Example of **P** (Probe)



Not suitable for Fire Detection

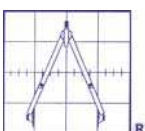
Example of product code creation:
 Heat detector ATEX certified T-box with glass, Temp. class C with alarm intervention at 90°C static with pulse LED and Auto Reset alarm:
 Code: **TMP2-TO-C90S2A**
 Heat detector Dust box, Temp. class A2 with alarm intervention at 57°C Rate of Rise with OFF LED in normal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



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