ELECTRONIC HEAT DETECTOR
TMP2

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

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**

"**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	**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	**M** = Manual Reset **A** = Auto Reset

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

Not suitable for
Fire Detection

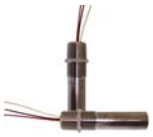
Example of **JO** or **TO** box

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 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**