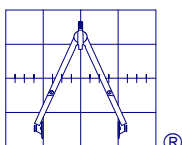


ELECTRONIC HEAT DETECTOR TMP2



INSTALLATION AND OPERATING INSTRUCTIONS

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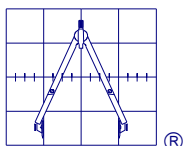
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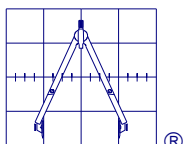


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WARRANTY STATEMENT

Warranty

Oggioni S.r.l. warrants that all items delivered under this agreement will be free from defects in material and workmanship, conform to applicable specifications, and, to the extent that detailed designs have not been furnished by the buyer, will be free from design defects. Oggioni S.r.l. shall not be liable for the goods being fit for a particular purpose. The above warranty is given by Oggioni S.r.l. subject to the following conditions:

Oggioni S.r.l. shall not be liable in respect of any defect in the goods arising from any design or specification supplied by the buyer;

Oggioni S.r.l. shall not be liable under the above warranty if the total price for the goods has not been paid by the time period specified in charter 6 of the present conditions of sales.

The above warranty does not extend to parts, materials or equipments manufactured by or on behalf of the buyer unless such warranty is given by the manufacturer to Oggioni S.r.l.

If so required by Oggioni S.r.l. the Products will be returned to Oggioni S.r.l. by the buyer at the buyer's risk and expense;

This warranty does not cover defects in or damage to the products which are due to improper installation or maintenance, misuse, neglect or any cause other than ordinary commercial application. Any claim by the buyer which is based on any defect in the quality or condition of the goods or their failure to correspond with specifications shall be notified to Oggioni S.r.l. within 24 months from the date of delivery, unless otherwise specified by Oggioni S.r.l. in writing.

Where any valid claim in respect of any goods which is based on any defect in the quality or conditions of the goods or their failure to meet specifications is notified to Oggioni S.r.l. in accordance with this conditions, Oggioni S.r.l. shall be entitled at Oggioni S.r.l.' sole discretion to either replace the goods free of charge or repair the goods. If Oggioni S.r.l. is neither ready nor able to either repair or replace the goods the buyer shall be entitled at the buyer's sole discretion to claim for a reduction of price or the cancellation of the contract.

Limitation of Liability

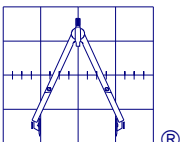
The warranty is in substitution for and shall replace all conditions and warranties on the part of Oggioni S.r.l. implied by statute or common law or otherwise all of which are expressly excluded (insofar as they may be excluded by law) and Oggioni S.r.l. shall not be liable whether in contract, tort or otherwise in respect of defects or in damage to the products or for any injury loss or damage of whatever kind attributable to such defects or damage.

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WARNINGS and CAUTIONS

TMP2 Heat detectors are not life safety devices.

TMP2 are Fixed Temperature or Rate of Rise Heat Detectors designed to detect open flames which can cause a rapid temperature increase.

The analysis unit uses a high accuracy solid state transducer, controlled by a microprocessor. Intelligent evaluation algorithms guarantees a lower risk of false alarms.

A service kit is available to simplify configuration, diagnosis, function checks and data archiving.

TMP2 are intelligent and innovative devices usable as integral part of fixed fire detection installations, to protect industrial plants. Additional coating of PCB and soldering of all electronic parts make this detector ideal for use in heavy industrial plants, and offshore applications.



Before using the TMP2 detectors make sure you have read and understood the operating and installation instructions in the present manual.

Improper use of these products, as well as the inadequate maintenance of the same, can compromise the efficiency jeopardizing the safety of the controlled environments.

Improper use of the detectors described in this manual or a use out of manufacturer's specification, as well as unauthorized modification of the product will be considered NON-COMPLIANCE with invalidation of any form of guarantee.

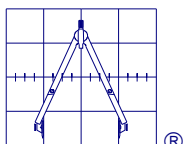
USE AND RESTRICTIONS

TMP2 heat detectors are designed to detect open flames which cause a quick increase in temperature, e.g.:

- Hazard material stores.
- Exhaust gas ducts.
- Engine test blocks
- Machine tools
- Transformer
- Chemical production
- Drying systems.
- Combustible material storage

DO NOT locate heat detectors above boilers or heaters or where the temperature is normally very high or liable to sudden fluctuations.

Near heating or air conditioning grilles.



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I INTRODUCTION

1.1 General Description

TMP2 Heat detectors are conventional 2-wires detectors designed to be used in outdoor and in indoor industrial environments.

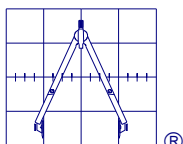
TMP2 heat detectors includes an electronic circuit for signal conditioning generated by the transducer.

A microprocessor analyzes the signal and, thanks to intelligent evaluation algorithms, assures an early fire detection with low risk of false alarms.



 II 2 GD Ex db tb IIC IIIC T6 T85°C

Dust IP66



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1.2 Features

Designed for use in heavy industrial environments.

- High electromagnetic tolerance.
- High degree of protection (IP66), oil-tight.
- High reliability, dependable long-life.
- High Immunity to EMI disturbances.
- Two temperature set-point levels from -20°C to 110°C.
- Self-diagnosis procedure.
- Wide range of temperature settings.
- Two wires technology.
- Impact and vibration-resistant.

1.3 Typical Application

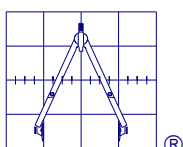
TMP2 heat detectors are particularly suitable in very dangerous environmental conditions such as in the presence of corrosive elements or condensing steams.

- Commercial and Industrial plants
- Suitable for use in explosive atmospheres
- Hazard material stores
- Exhaust gas ducts
- Engine test blocks
- Machine tools
- Chemical production
- Drying systems.
- Combustible material storage

Reference table for the choice of the detectors

EN 54-5 classifies heat detector according to the environmental temperature and alarm temperature according to the following table.

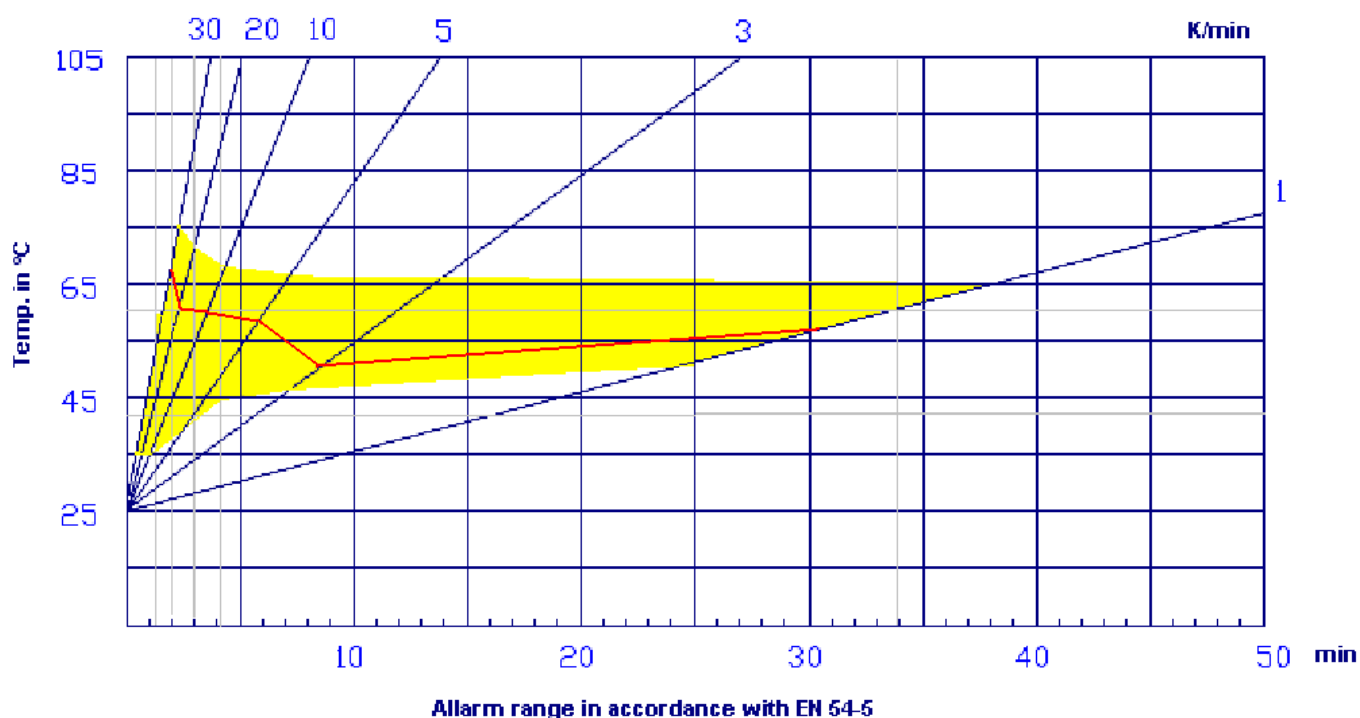
Class	Normal Environmental Temperature °C	Max. Environmental Temperature °C	Minimum Static Threshold °C	Max. Static Threshold °C
A1	25	50	54	65
A2	25	50	54	70
B	40	65	69	85
C	55	80	84	100
D	70	95	99	115



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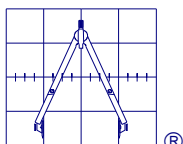


Response Time



Each TMP2 heat detector has a static response and may also have a rate of rise response. The suffix **R** indicates that the heat detector has been tested and approved as a rate of rise (RoR) detector.

The suffix **S** indicates that the heat detector has been tested and approved as a static detector.



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II SPECIFICATION

2.1 General specification

Used Sensor Technologies	Semi-conductor
Code of protection	Ex II 2 GD Ex db tb IIC IIIC T6 T85°C , only for models TMP2-T.. or TMP2-J..
IP Rating	IP66
Location	Hazardous areas (zone 1). Only for models TMP2-T.. or TMP2-J..
CE marking	See www.oggionisas.com for Declaration of Conformity
EN54-5 CPR Certificate	For models TMP2-TO; TMP2-JO and TMP2-D

2.2 Electrical Specification

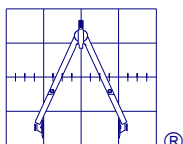
Supply Voltage	12-24 Vdc
Power consumption	20/30 uA Max. in normal conditions, in Alarm condition: 11mA ± 3mA @ 13,7 Vdc 12mA ± 3mA @ 24 Vdc
Supply fuse	50 mA
Cable Type	2 conductors shielded cable
Terminals	For wires section 0.56 to 2.5 mm ² (from 22 to 14 AWG)

2.3 Environmental Specification

EMC susceptibility	According to EN 50270; EN 61000-4
Storage temperature	-20 to +40 °C
Operating temperature	-40 to +110 °C
Humidity range	90% R.H. n.c.

2.4 Mechanical Specification

Overall dimensions	ATEX version: 160x85x75 mm DUST version: 203x95x60 mm
Weight	ATEX version: 410 g. DUST version: 400 g.
Mounting	2x6 mm threaded holes 5 MA
Termination	Ex-d cable gland
Junction box attachment	ATEX version: 1/2" NPT DUST version: 2 x M20 Cable Holder (included) (Cables diameter from 6 to 13 mm)
Probe Ext. connection	1/2" GAS ISO 228 B



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2.5 Ordering information

The TMP2 heat detectors may have various configurations according to the application requests. The coding here below groups together the various options.

Model	Box Type	Temperature Class	Mode	Led Status	Alarm config.
TMP2		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			M = Manual Reset A = Auto Reset 1 = OFF in normal condition ON in Alarm condition 2 = PULSE in normal condition OFF in Fault condition ON in Alarm condition
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



Not suitable for
Fire Detection

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



Suitable for
Fire Detection

Example of **D** box

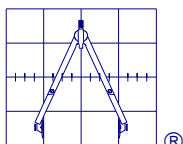


Suitable for
Fire Detection

Example of **P** (Probe)



Not suitable for
Fire Detection

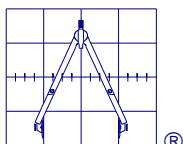
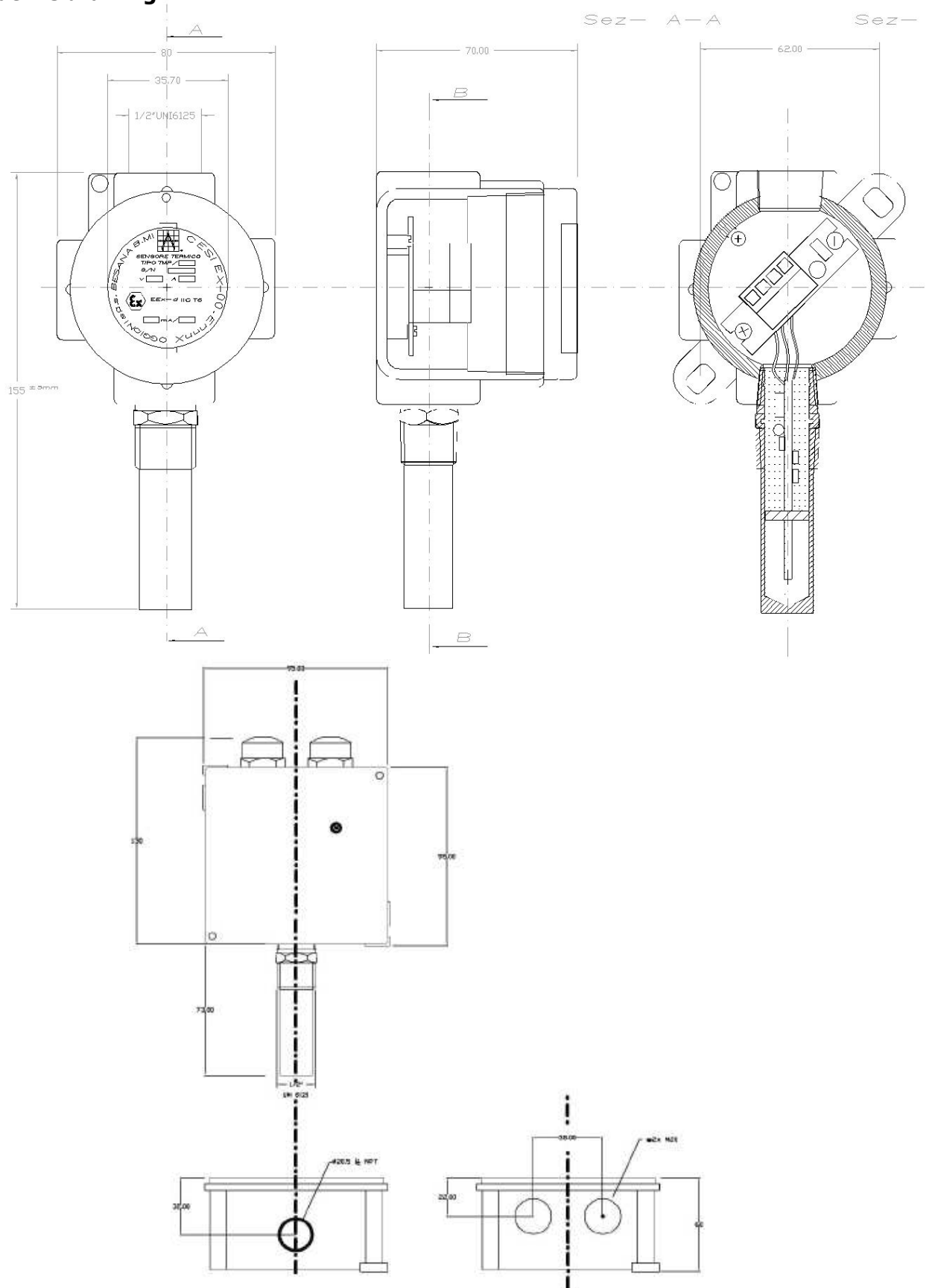


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2.6 Outline drawing



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III INSTALLATION

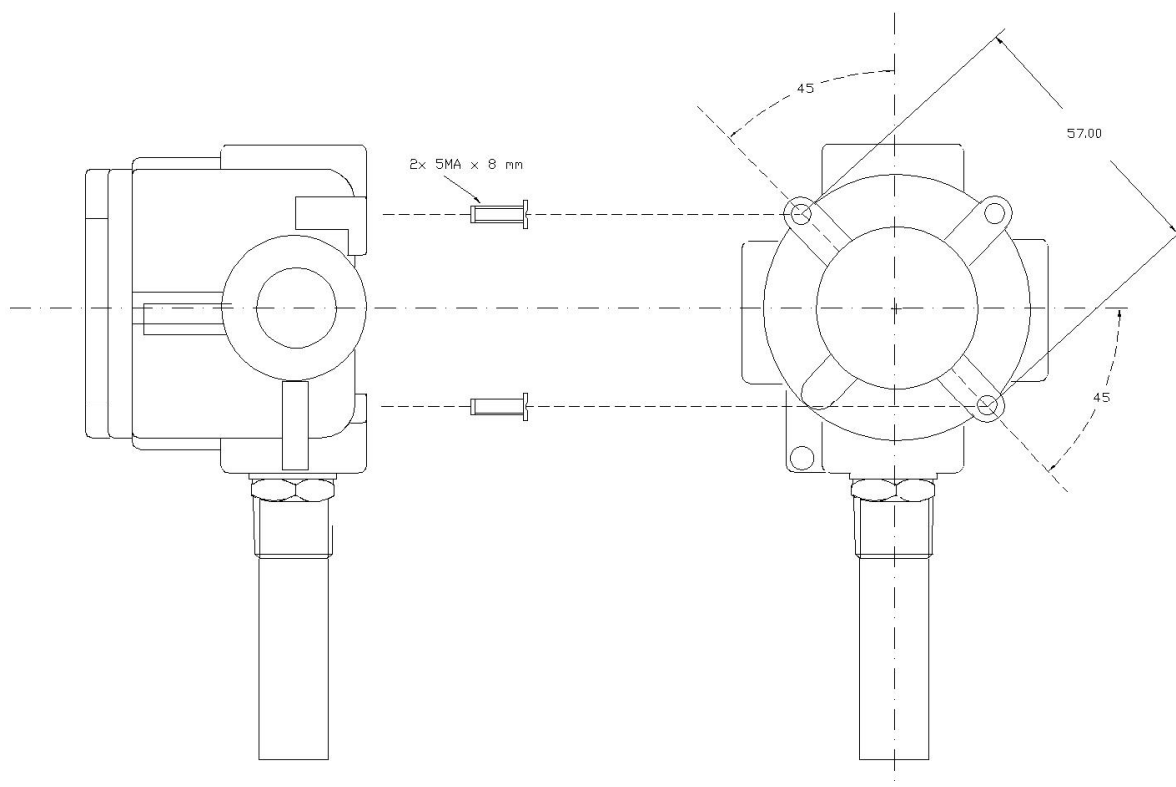
The installation of the heat detector must be performed in accordance with European Standard UNI 9795 - EN 54 or in accordance with national normative.



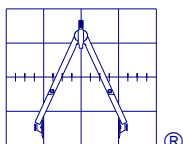
Installation must be carried out by well skilled and competent personnel only.
Site the heat detectors to facilitate recalibration and maintenance routine.
Always mount the heat detectors vertically with the detection head facing downwards and the cable entry on top, or in horizontal position.

3.1 Mounting

TMP2 heat detectors may be installed directly on a wall or by mounting brackets using the two 5MA mounting holes. The TMP2 detectors can be installed directly on the electrical conduit pipe if it is sufficiently rigid to support the weight of the detector.



If possible install the detectors to facilitate recalibration and maintenance routine.



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3.2 Generic wiring guidelines

The use of shielded cables is recommended to connect the heat detector to the power supply unit. Should more than one strand of wire be used in the wiring be sure that the cable screen is continuous and that the conductors are soldered at the joints.

The cable screen must be connected to safety grounding in safe area.

Furthermore it must be remembered that the protective shielding must be grounded only on the control unit or power supply side and should never be connected to the heat detector.

The use of terminal leads is recommended, or in any case joints on the power cable must be clamped with flat tab connectors or soldered.

Complete all cable insulation testing before connecting the cable at either end.

When all wiring has been completed and tested, the system may be powered-up.

NOTE: All wiring must conform to applicable local codes, ordinances, and regulations.

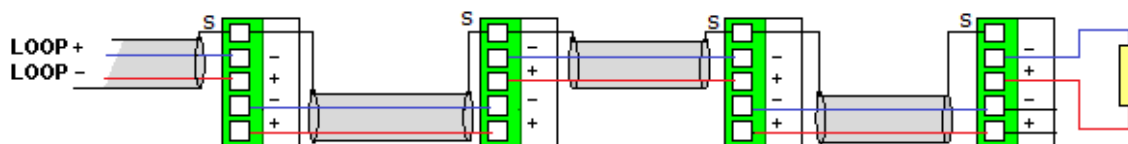
The following table gives a guide about the wire section depending on the distances.

Distance Km	AWG Section	mm ² Section
<0,5	22	0,64
1.5	17	1

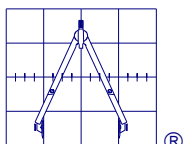
ELECTRICAL CONNECTIONS

Interconnection references for current loop with end of line resistor

Terminal block 5 Pins (TMP2-D version):



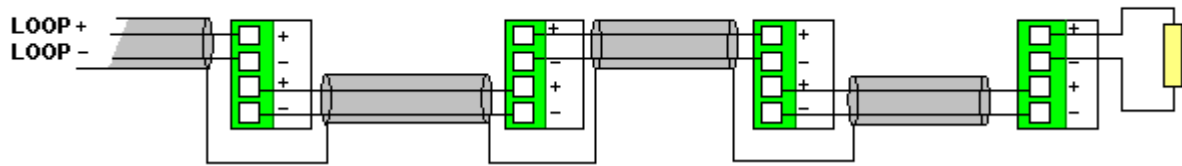
Pin 5: cable shield connection.



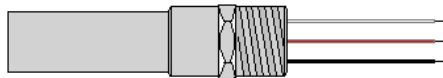
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Terminal block 4 Pins (TMP2-J/JO/T/TO):



Single Probe without terminal block (TMP2-P version):



TMP2 probe cable assignment	
Red cable	Terminal Block +
Black cable	Terminal Block -
White cable	Configuration serial input

NOTE: Connection to central unit: Short-circuit white cable with red cable (connecting them to the same terminal block)

3.3 Guide lines for proper installation according to EMC Directive

To comply with EN 50270 EMC (Electromagnetic Compatibility), you have to observe some simple points during the installation.

In General:

The area chosen to instal the heat detectors must be free from strong electromagnetic interferences.

Eventual autonomous power supply sources powering the heat detectors must be equipped with line filters type FN 660 (Schaffner) or equivalent or in any case in accordance with the EMC Directive

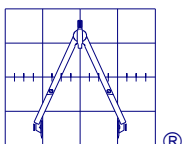
To connect the devices it is recommended to use shielded cables with a minimum cover of 80%. It is recommended to avoid connecting inductive or capacitive loads, that could generate transient on the system power supply, to the same power supply source used for the heat detectors.

If secondary power supply for actuators, sirens or other devices is necessary, it is recommended to use a separate winding on main power supply transformer secondary.

The electrital power supply must be properly connected to the grounding.

3.4 General precautions

Any repairs or tecnical operation on the heat detector must be performed only by athorized Oggioni S.r.l. personnel



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3.5 Storage

The heat detectors must be stored in clean areas, not humid and always in the temperature range as indicated of the tecnica specifications.

In case of prolonged storage, heat detectors must be placed into their original packing and they have to be sealed in plastic bags containing, if possible, a drying agent.

3.6 Cable connection guidelines

Connections are made via screw terminals accepting the following wire sections:
#22 AWG ÷ #14 AWG (0.5 ÷ 2.5 mm²).

Before powering up the device, ensure that all electrical connections have been completed and are correct.

TMP2 are programmed during production by the manufacturer on customer request and can be modified only by connecting them to a PC using a specific software called "TMP2 Config".

(see TMP2 Config software Instruction Manual).

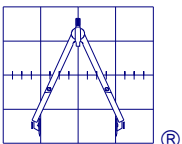
Changes into the TMP2 functioning parameters, made by not trained or not competent people can significantly modify functionalities of the detection system and the device itself.
OGGIONI S.r.l. will not be responsible for any damage or problem caused by improper changes into TMP2 functionalities.

3.7 Final inspection and Start Up

Complete all cable insulation testing before connecting the cable at both ends.

The CABLE SHIELD, if used, must be isolated and it must NOT BE CONNECTED TO THE HEAT DETECTOR. Where possible, it can be connected to the provided Pin 5 on the terminal block (TMP2-D version).

After all the wiring has been connected and completely tested, the heat detector must be closed, and only after this the system can be powered on.



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IV TEST AND VERIFICATION

OPERATION - Testing for operation is simple and can be done after the heat detector has been installed. Heat the detector with a common 1000-1500 watts industrial dryer, paying attention not to overpass the maximum allowed temperature of 120°C.

Direct the heat toward the detector's probe holding the heat source approximately 5-6 cm far from the detector.

Do not use any device with an open flame to test heat detectors.

SENSITIVITY - Sensitivity Test is more difficult and requires a laboratory oven where the temperature can be controlled and where calibrated measuring devices and climatic tunnel are used.

For more details please see www.oggionisas.com TMP2 heat detector test.

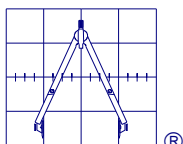
It is recommended to perform functional test on TMP2 heat detectors every six months according to the operation instructions related to the used detector type.



***WARNING:** If you are working in a classified explosion hazardous area make sure you are taking all the necessary precautions before you open the heat detector body. This operations can only be performed by qualified and trained personnel.*



Before starting any test procedure all personnel responsible for security must be informed and all alarm systems which might be connected to the system must be deactivated.



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V MAINTENANCE

Safety Warning

Installation and maintenance for these products must be performed by trained, skilled and competent personnel only.

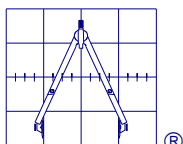
Before starting any maintenance procedures, all responsible security personnel should be informed and all alarm systems which might be connected to the system should be deactivated.



These instruments need a routine maintenance with calibration procedure on a regular basis.

Check (possibly every six months) the detector response.

At the end of the maintenance and/or inspection update the plant register, making sure to keep records of the actions taken.

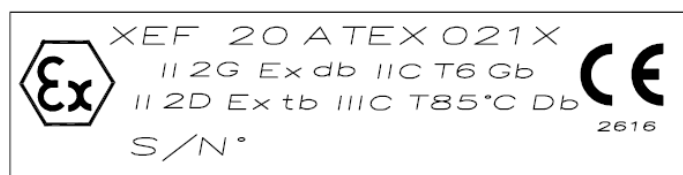
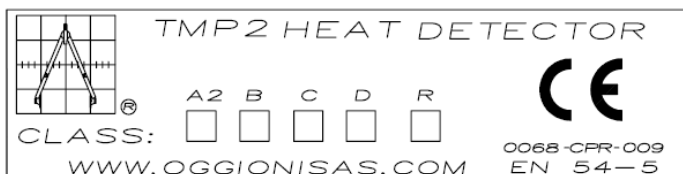


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VI MARKING and CERTIFICATIONS

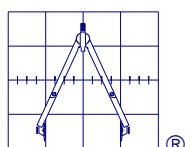
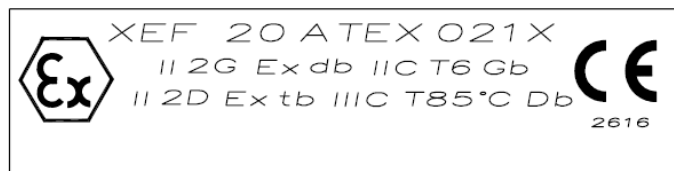
7.1 TMP2 HEAT DETECTOR models TMP2-TO or TMP2-JO



TMP2 HEAT DETECTOR models TMP2-D



TMP2 HEAT DETECTOR models TMP2-T or TMP2-J



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EC Declaration of Conformity

We, Oggioni s.a.s,
Via Laboratori
Autobianchi 1
20832 Desio (MB)
Italy
declare under our sole
responsibility that
the mentioned product
is in accordance
with the applicable
european directive and
to the listed harmonized
standards or
normative
documents.
Where applicable,
a competent body
has been released
the relevant EC Type
Examination

This Declaration of Conformity is relevant to the following products

Heat detector, TMP2 series

Equipment or protective system intended for use in potentially explosive atmospheres

relevant european directive

applied harmonized standards

IEC EN 60079-0:2012+A11:2013	Electrical apparatus for explosive gas atmospheres: General requirement
IEC EN 60079-1:2014	Electrical apparatus for explosive gas atmospheres: Flameproof enclosures "d"
IEC EN 60079-31:2014	Explosive atmospheres: Equipment dust ignition protection by enclosure "t"

Type of protection: **II 2 GD Ex db tb IIC IIIC T6 T85°C**

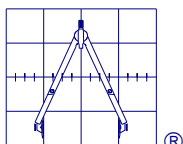
Notified Body: **Xefracert Srl n° 2772**
EC Type Examination **XEF 20 ATEX 0021 X**

Notification of Quality System according to annex III of 2014/34/UE directive
no. XEF 20 ATEX 0021 X issued by Notified Body TUV INTERCERT Srl – CE2616

Signature of manufacturer
General Director

Date: 28/01/2021

Managing Director



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Atex Certified

EC DECLARATION OF PERFORMANCE

Issue No: OGG016814

**HEAT DETECTOR TMP2 Series**

Ref. EC-certificate of conformity n° 0068-CPR-009/2014
EN 54-5 -: 2000 + A1: 200 Notified body: N° 0068 MASINI s.r.l.

ISTITUTO DI RICERCHE E COLLAUDI
M. MASINI S.r.l.
Sede amministrativa e laboratori: Via Masini, 11 - 20117 RHO (MI) - ITALIA - Sede Legale: Via S. Eufemia, 2 - 20122 MILANO - CF e P.IVA 00602210150
Tel. +39 02 93 01 517 r.a. - Fax +39 02 93 08 176 - www.istitutomasini.it - istitutomasini@istitutomasini.it
Organismo Notificato n° 0068 - Notified Body n° 0068

CERTIFICATO DI COSTANZA DELLE PRESTAZIONI
CERTIFICATE OF CONSTANCY OF PERFORMANCE
n. 0068-CPR-009/2014 del/of 31/01/2014

In conformità con il Regolamento 305/2011/UE del Parlamento Europeo e del Consiglio del 9 marzo 2011 (Regolamento Prodotti da Costruzione o CPR), questo certificato si applica ai prodotti di costruzione.
In compliance with Regulation 305/2011/EC of the European Parliament and of the Council of 9 March 2011 (the Construction Products Regulation or CPR), this certificate applies to construction products.

Rivelatore di calore – rivelatore puntiforme serie TMP2
per i sistemi di rivelazione e allarme
Heat detector – point detector model TMP2 for fire detection and fire alarm system

la cui caratteristiche e prestazioni sono descritte in allegato
whose characteristics and performance are described in annex

fabbricati da / produced by
OGGIONI S.a.s.
Via Gariberto da Besana, 11 - 20842 BESANA BRIANZA (MB) - ITALIA

nello stabilimento di produzione / in the manufacturing plant
Via Lavoratori Autobianchi, 1 - 20832 DESIO (MB) - ITALIA

Il presente certificato attesta che tutti i requisiti concernenti la valutazione e la verifica della costanza delle prestazioni descritte nell'allegato ZA della norma:
This certificate attests that all provisions concerning the assessment and verification of constancy of performance described in Annex ZA of the standard(s)

EN 54-5:2000 + A1:2002
nell'ambito del Sistema 1 sono applicati e che
under system 1 are applied and that

il prodotto soddisfa tutti i requisiti prescritti sopraindicati
the product fulfils all the prescribed requirements set out above

Il presente certificato è stato emesso per la prima volta il 31/01/2014 e rimarrà valido fin tanto che i metodi di prova e/o i requisiti del controllo di produzione in fabbrica inclusi nelle norme armonizzate utilizzate per la verifica delle prestazioni delle caratteristiche dichiarate non cambiano e il prodotto e le condizioni di produzione nell'impianto non sono modificate in modo significativo.
This certificate was first issued on 31/01/2014 and will remain valid as long as the test methods and/or factory production control requirements included in the harmonized standard, used to assess the performance of the declared characteristics, do not change, and the product, and manufacturing conditions in the plant are not modified significantly.

Il presente certificato ha anche n. 1 allegato / This certificate has also n. 1 annex.

Il Responsabile SCP/SG - The Head of PCS/QS Sector
P. Gabriele Lualdi

Il Direttore Tecnico - The Technical Manager
P. Sergio Tosi

loglio/page 1 di/of 1

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Tel. +39 02 93 01 517 r.a. - Fax +39 02 93 08 176 - www.istitutomasini.it - istitutomasini@istitutomasini.it
Organismo Notificato n° 0068 - Notified Body n° 0068

ALLEGATO N. 1 AL CERTIFICATO DI COSTANZA DELLE PRESTAZIONI
ANNEXE N° 1 TO THE CERTIFICATE OF CONSTANCY OF PERFORMANCE
n. 0068-CPR-009/2014

Requisiti e caratteristiche funzionali
Functional characteristics and requirements

➤ Classi di temperatura
Temperature class

A2SR e CSR (EN 54-5 par. 4.2)

EN 54-5:2000 + A1:2002 - Prestazioni e caratteristiche dichiarate
EN 54-5:2000 + A1:2002 - Declared performance and characteristics

Caratteristiche essenziali	Essential Characteristics	Prestazioni Performance	Rif. Capito la norma Standard clause ref.
Condizioni normali di attivazione / Normal activation conditions / Condizioni di attivazione / Activation conditions	Non testate / Not tested / Non testate / Not tested	Conforme/pass	4.2
- Classificazione	- Classification	Conforme/pass	4.3
- Posizione dell'elemento sensibile	- Position of heat sensitive element	Conforme/pass	5.2
- Dipendenza direzionale	- Directional dependence	Conforme/pass	5.3
- Temperatura di risposta statica	- Static response temperature	Conforme/pass	5.4
- Tempo di risposta alla temperatura normale di esercizio	- Response time from typical application temperature	Conforme/pass	5.5
- Tempo di risposta a partire da 25 °C	- Response time from 25 °C	Conforme/pass	5.6
- Tempo di risposta a partire da temperatura ambiente elevata	- Response time from high ambient temperature	Conforme/pass	5.8
- Riproducibilità	- Reproducibility	Conforme/pass	6.1
- Prove aggiuntive per rivelatori con suffisso S	- Additional test for suffix S detectors	Conforme/pass	6.2
- Prove aggiuntive per rivelatori con suffisso R	- Additional test for suffix R detectors	Conforme/pass	6.2
Affidabilità operativa	Operational reliability		
- Indicazione di allarme individuale	- Individual alarm indication	Conforme/pass	4.4
- Collegamento di dispositivi ausiliari	- Connection of ancillary devices	Conforme/pass	4.5
- Controllo dei rivelatori mobili	- Monitoring of detachable detectors	Conforme/pass	4.6
- Regolazione del fabbricante	- Manufacturer's adjustment	Conforme/pass	4.7
- Regolazione in campo della risposta	- On-site adjustment of response behaviour	Conforme/pass	4.8
- Marcatura	- Marking	Conforme/pass	4.9
- Dati	- Data	Conforme/pass	4.10
- Requisiti aggiuntivi per rivelatori con controllo via software	- Additional requirements for software controlled detectors	Conforme/pass	4.11

loglio/page 1 di/of 2 dell'allegato/nd annex 1

Heat detector - Point detectors model TMP2-JO, TMP2-TO, TMP2-D for Fire detection and Fire alarm systems.
Alarm temperature according to class:

Class	Normal Environmental Temperature °C	Max. Environmental Temperature °C	Minimum Static Threshold °C	Max. Static Threshold °C	Status
A2	25	50	54	70	Certified
C	55	80	84	100	Certified
D	70	95	99	115	Pending

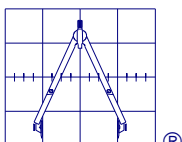
No modification permitted without reference to the Notified Body

Signature of manufacturer

General Director

Managing Director

Date: 01/02/2014



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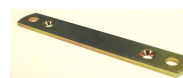
Atex Certified

VII ACCESSORIES

TMP2-SC14 Ex-d Termination Box for End-of-Line Resistor



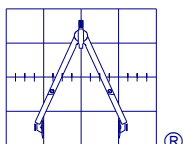
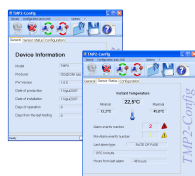
Mounting Brackets for heat detectors TMP2-J/T/JO/TO model



ATEX certified Cable Holder Size 1/2" for Ex TMP2, for Not Armoured cables, complete of rubber parts



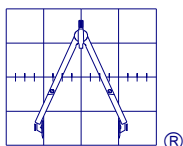
TMP2 Diagnostic Software



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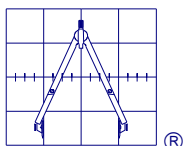
NOTES



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NOTES



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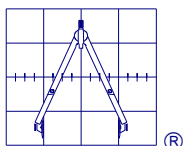
For more information please contact:

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The brochure includes general specifications which are subject to change without prior notice.



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