

EXTENSION n. 02/08



to EC-Type Examination Certificate CESI 01 ATEX 053

Equipment: Gas detectors series ST

Manufacturer: SENSITRON S.r.l.

Address: Via della Repubblica 48 – 20100 Cornaredo - MI - Italy

Admitted variation

- change of identification code from NET/ in ST/;
- change of the manufacturer address from *Via A. Manzoni 19 – Pogliano Milanese (MI) ITALY* to *Viale della Repubblica 48 – Cornaredo (MI) ITALY*;
- constructional modification;
- new electrical characteristics;
- minimum operating temperature – 40°C for equipment of category 2G;
- conformity to EN60079-0 (2006), EN60079-1 (2004), EN61241-0 (2006), EN61241-1 (2004) Standards.

Details of the admitted variations are specified in the descriptive documents annexed to this extension.

Marking

The gas detectors type ST/ shall be marked as follows:

II 2G Ex d IIC T6 o T5 o T4 for Tamb –40 ÷ +60 °C

II 2G Ex d IIB T5 o T4 for Tamb –40 ÷ +70 °C

II 2GD Ex d IIC T6 o T5 o T4 Ex td A21 IP65 T85°C o T100°C o T110°C for Tamb –20 ÷ +60 °C

II 2GD Ex d IIB T5 o T4 IP65 T100°C o T110°C for Tamb –20 ÷ +70 °C

This extension and annexed descriptive documents must be annexed to the EC-Type Examination Certificate CESI 01 ATEX 053.

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date 10 January 2008 - translation issued the 10th January 2008

prepared Enrico Radaelli

verified Mirko Balaz

approved Fiorenzo Bregani

CESI S.p.A.
Divisione Energia
"Area Tecnica Certificazione"
Il Responsabile

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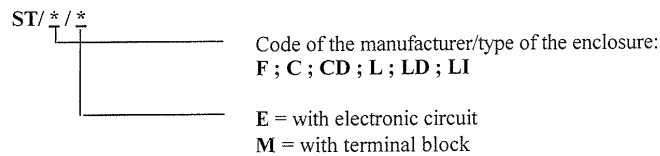
EXTENSION n. 02/08

to EC-Type Examination Certificate CESI 01ATEX 053

Description and identification of the equipment

The gas detectors series ST/ are composed by a gas sensor containing the sensitive element coupled with a flameproof enclosure containing electronic circuits and/or the terminal block. The enclosure may be equipped with the optical device WLPT02 for the infrared (IR) data transmission. Both the gas sensor and the flameproof enclosure are subject of separate certification.

The various type of gas detector type ST/ are identified by the following code that replaces the previous code at the date of the present extension:



The complete code and the detectors characteristics are reported in the document annexed to the certificate. The identification code is reported both on the sensor plate and on the plate of the enclosure containing the electronic circuits and/or the terminal block.

Electrical characteristics

- Maximum supply voltage: 24 Vdc
- Maximum absorbed current: 500 mA
- Maximum absorbed power: 8 W^[1]
- Maximum radiant power: < 35mW
- Ambient temperature:
 - 40 ÷ +60/+70°C for detectors of category 2G
 - 20 ÷ +60/+70°C for detectors of category 2GD

[1] The real power absorbed by the equipment is function of the power absorbed by the sensitive element within the head sensor and of the power absorbed by the electric circuits inside of the enclosure. The relevant details to the different conditions of power absorbed, also in function of the maximum ambient temperature, are reported in the descriptive documents annexed to the certificate.

In the following table are reported the temperature class (for gas "G") and the maximum surface temperature (for dust "D") of the ST/ detectors in function of the maximum ambient temperature, type and maximum power of the NET* head sensor containing the sensitive element.

Head type	NET 1				NET 2				NET 3			
	≤ 1W		≤ 3W		≤ 1W		≤ 3W		≤ 1W		≤ 3W	
Head power	G	D	G	D	G	D	G	D	G	D	G	D
Max ambient temperature												
+ 60 °C	T6	T85°C	T4	T110°C	T6	T85°C	T5	T100°C	T6	T85°C	T5	T100°C
+ 70 °C (only for IIB)	T5	T100°C	T4	T110°C	T5	T100°C	T4	T110°C	T5	T100°C	T4	T110°C

Warning label

For detectors with Tamb +70°C:

"Use cables with operating temperature ≥ 80°C"

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EXTENSION n. 02/08

to EC-Type Examination Certificate CESI 01ATEX 053

Cable entries

The accessories used for the cable entries and to close the unused holes, shall be certified according to the EN60079-0 and EN60079-1 and shall be used according to the instructions reported in the relevant certificate. For the detectors installed in zones with presence of combustible dust the accessories used for the cable entries and to close the unused holes shall be marked 2GD and guarantee a minimum degree of protection IP65 according to the EN60529 Standard.

The accessories used for the cable entries shall be suitable for the operating temperature specified for the cables.

Report n. EX-A8000712

Routine tests

The manufacturer shall carry out the routine tests prescribed at par. 27 of EN 60079-0 Standard and at par. 24 of EN 61241-0 Standard.

Descriptive documents (prot. EX-A8000715)

- Technical Note NT 1957	(pg. 5)	dated	07.01.2008
- Safety Instructions MT896 rev.3	(pg. 6)	dated	03.01.2008
- MEEEX1958		dated	07.01.2008
- MEEEX1963		dated	07.01.2008
- MEEEX1939		dated	07.01.2008
- MEEEX1940		dated	07.01.2008
- MEEEX1941		dated	07.01.2008
- Declaration of Conformity 01ATEX053 rev.1		dated	07.01.2008

One copy of all documents is kept in CESI files.

Essential Health and Safety Requirements

The Essential Health and Safety Requirements are assured by compliance to the following standards:

- EN 60079-0: 2006 – Electrical apparatus for explosive gas atmosphere -General requirements.
- EN 60079-1: 2004 – Electrical apparatus for explosive gas atmosphere - Flameproof enclosure “d”.
- EN 61241-0: 2006 - Electrical apparatus for use in the presence of combustible dust -General requirements
- EN 61241-1: 2004 - Electrical apparatus for use in the presence of combustible dust – Protection by enclosures “tD”.

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CESI
Centro Elettrotecnico
Sperimentale Italiano
Giacinto Motta SpA

Via R. Rubattino 54
20134 Milano - Italia
Telefono +39 022125.1
Fax +39 0221255440
www.cesi.it

Capitale sociale 8 550 000 €
interamente versato
Codice fiscale e numero
iscrizione C.C.I.A.A. 00793580150

Registro Imprese di Milano
Sezione Ordinaria
N. R.E.A. 429222
P.I. IT00793580150

NOTIFICA



[1] **NOTIFICA DELLA GARANZIA DI QUALITÀ
DELLA PRODUZIONE**

[2] **Apparecchiature o Sistemi di Protezione o Componenti destinati
ad essere utilizzati in atmosfere potenzialmente esplosive
Direttiva 94/9/CE**

[3] Numero della Notifica:

CESI 01 ATEX 086 Q

[4] Tipo di prodotto o componente: Rilevatori di gas

Principio di protezione: Custodie a prova d'esplosione "d"
Sicurezza intrinseca "i"
Modo di protezione "n"
Sicurezza aumentata "e"
Incapsulamento "m"
Costruzioni per polveri combustibili "tD"

[5] Richiedente: Sensitron S.r.l.
Viale della Repubblica 48
20010 Cornaredo - MI

[6] Costruttore: Sensitron S.r.l.
Viale della Repubblica 48
20010 Cornaredo - MI

[7] Il CESI, organismo notificato n. 0722 in conformità all'articolo 9 della Direttiva 94/9/CE del Consiglio dell'Unione Europea del 23 Marzo 1994, notifica al richiedente che il costruttore ha un sistema di qualità della produzione conforme all'Allegato IV della Direttiva.

[8] Questa notifica è basata sul rapporto di verifica ispettiva n. EX-B0035230 rilasciato il 4/12/2010.

Questa notifica può essere ritirata se il costruttore non rispetta più i requisiti dell'Allegato IV.

I risultati delle verifiche periodiche del sistema di qualità sono parte di questa notifica.

[9] Questa notifica è **valida fino al 4/12/2013** e può essere ritirata se il costruttore non soddisfa le verifiche periodiche di garanzia di qualità della produzione.

[10] In accordo con l'Articolo 10 paragrafo 1 della Direttiva 94/9/CE la marchiatura CE deve essere seguita dal n. 0722 che identifica l'organismo notificato designato al controllo della produzione.

Questa notifica può essere riprodotta solo integralmente e senza alcuna variazione.

Data di prima emissione
3 dicembre 2001

Data di rinnovo
4 dicembre 2010

Elaborato
Sergio G. Giugno

Pagina 1/1

Verificato
Mirko Balaž

Approvato
Fiorenzo Bregani

CESI
Centro Elettrotecnico Sperimentale Italiano
Giacinto Motta SpA

Schema di certificazione

ATEX CESI

Il CESI è stato autorizzato dal governo italiano ad operare quale organismo di certificazione di apparecchi e sistemi destinati a essere utilizzati in atmosfera potenzialmente esplosiva con D.M. 1/3/1983, D.M. 19/6/1990, D.M. 20/7/1998, D.M. 27/9/2000 e D.M. 02/02/2006

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Centro Elettrotecnico
Sperimentale Italiano
Giacinto Motta SpA

Via R. Rubattino 54
20134 Milano - Italia
Telefono +39 022125.1
Fax +39 0221255440
www.cesi.it

Capitale sociale 8 550 000 €
interamente versato
Codice fiscale e numero
iscrizione CCIAA 00793580150

Registro Imprese di Milano
Sezione Ordinaria
N. R.E.A. 429222
P.I. IT00793580150

NOTIFICATION

[1] **PRODUCTION QUALITY ASSURANCE
NOTIFICATION**

[2] **Equipment or Protective System or Component intended for use
in potentially explosive atmospheres
Directive 94/9/EC**

[3] Notification number:

CESI 01 ATEX 086 Q

[4] Equipment or component type: Gas detectors

Protection concepts: Flameproof enclosures "d"
Intrinsic safety "i"
Protection mode "n"
Increased safety "e"
Encapsulation "m"
Dust ignition protection "tD"

[5] Applicant: Sensitron S.r.l.
Viale della Repubblica 48
20010 Cornaredo - MI

[6] Manufacturer: Sensitron S.r.l.
Viale della Repubblica 48
20010 Cornaredo - MI

[7] CESI, notified body n. 0722 in accordance with Article 9 of the Council Directive 94/9/EC of 23 March 1994, notifies to the applicant that the actual manufacturer has a production quality system which complies to Annex IV of the Directive.

[8] This notification is based on audit report n. EX-B0035230 issued the 4/12/2010.

This notification can be withdrawn if the manufacturer no longer satisfies the requirement of Annex IV.

Results of periodical re-assessment of the quality system are a part of this notification.

[9] This notification is **valid until 4/12/2013** and can be withdrawn if the Manufacturer does not satisfy the production quality assurance re-assessment.

[10] According to Article 10 [1] of the Directive 94/9/EC the CE marking shall be followed by the identification n. 0722 identifying the notified body involved in the production control stage.

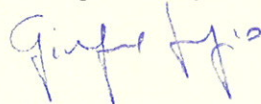
This notification may only be reproduced in its entirety and without any change.

Date of 1st issue
3rd December 2001

Date of renewal
4th December 2010

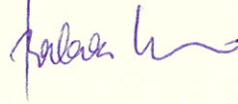
Translation issued 4th December 2010

Prepared
Sergio G. Giugno



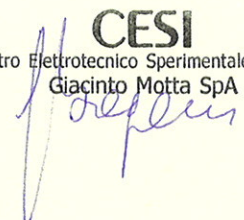
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Verified
Mirko Balaž



Approved
Fiorenzo Bregani

CESI
Centro Elettrotecnico Sperimentale Italiano
Giacinto Motta SpA



Schema di certificazione

CESI-ATEX

Il CESI è stato autorizzato dal governo italiano ad operare quale organismo di certificazione di apparecchi e sistemi destinati a essere utilizzati in atmosfera potenzialmente esplosiva con D.M. 1/3/1983, D.M. 19/6/1990, D.M. 20/7/1998, D.M. 27/9/2000 e D.M. 02/02/2006

EXTENSION n. 01/03



to Production Quality Assurance Notification CESI 01ATEX086Q

Manufacturer: Sensitron S.r.l.
Address: via A. Manzoni 19 - 20010 Pogliano Milanese (MI)

Admitted variation

Protection concepts: Type of protection 'n'
Dust ignition protection

Audit report n. EX-A3/043764

One copy of audit report is kept in CESI files.

This extension and audit report must be annexed to the Production Quality Assurance Notification CESI 01ATEX086Q.

This document may only be reproduced in its entirety and without any change.

date 19 December 2003 - translation issued the 19 December 2003

prepared CERT - S.G. Giugno

verified CERT - M. Balaz

approved CERT - U. Colombo

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Prot. A3/043769 P: 1
Keywords 13010R 27420G 542500 66540E

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EXTENSION n. 01/06



to Production Quality Assurance Notification CESI 01 ATEX 086 Q

Manufacturer: Sensitron S.r.l.
Address: Via A. Manzoni 19 – 20010 Pogliano Milanese (MI)

Admitted variation

New address: Viale della Repubblica 48 – 20010 Cornaredo (MI)
Type of protection: Intrinsic safety 'i'

Audit Report A6035640 dated 29.12.2006

One copy of descriptive documents is kept in CESI files.

This extension and descriptive documents must be annexed to the Production Quality Assurance Notification CESI 01ATEX086Q.

This document may only be reproduced in its entirety and without any change.

date 29 december 2006 - translation issued the 29 december 2006

prepared GEN-CEX – S.G. Giugno

verified GEN-CEX – M. Balaž

approved GEN – F. Bregani

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Il Responsabile

Prot. A6035644

P: 1

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EXTENSION n. 01/06



to Production Quality Assurance Notification CESI 01 ATEX 086 Q

Manufacturer: Sensitron S.r.l.
Address: Via A. Manzoni 19 – 20010 Pogliano Milanese (MI)

Admitted variation

New address: Viale della Repubblica 48 – 20010 Cornaredo (MI)
Type of protection: Intrinsic safety 'i'

Audit Report A6035640 dated 29.12.2006

One copy of descriptive documents is kept in CESI files.

This extension and descriptive documents must be annexed to the Production Quality Assurance Notification CESI 01ATEX086Q.

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date 29 december 2006 - translation issued the 29 december 2006

prepared GEN-CEX – S.G. Giugno

verified GEN-CEX – M. Balaž

approved GEN – F. Bregani

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Centro Elettrotecnico Sperimentale Italiano
Giacinto Motta SpA
Business Unit GENERAZIONE
Il Responsabile

Prot. A6035644

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EXT-PRODUCT QA NOT. - E01

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Centro Elettrotecnico
Sperimentale Italiano
Giacinto Motta SpA

Via R. Rubattino 54
20134 Milano - Italia
Telefono +39 022125.1
Fax +39 0221255440
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Centro Elettrotecnico
Sperimentale Italiano
Giacinto Motta SpA

Via R. Rubattino 54
20134 Milano - Italia
Telefono +39 022125.1
Fax +39 0221255440
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Schema di certificazione

CESI-ATEX

Il CESI è stato autorizzato dal governo italiano ad operare quale organismo di certificazione di apparecchi e sistemi destinati a essere utilizzati in atmosfera potenzialmente esplosiva con D.M. 1/3/1983, D.M. 19/6/1990, D.M. 20/7/1998 e D.M. 27/9/2000

CERTIFICATE



[1] EC-TYPE EXAMINATION CERTIFICATE

[2] **Equipment or Protective System intended for use
in potentially explosive atmospheres
Directive 94/9/EC**

[3] EC-Type Examination Certificate number:
CESI 02 ATEX 084

[4] **Equipment:** Gas detector for methane (CH₄) type NET//E

[5] **Manufacturer:** SENSITRON S.r.l.

[6] **Address:** Via A. Manzoni, 19 – 20010 Pogliano Milanese (MI) – Italy

[7] This equipment or protective system and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

[8] CESI, notified body n. 0722 in accordance with Article 9 of the Council Directive 94/9/EC of 23 March 1994, certifies that this equipment or protective system has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in confidential report n. EX-A2/028823.

[9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN 50014: 1997 + A1..A2 EN 50018: 2000 EN 61779-1: 2000 EN 61779-4: 2000

[10] If the sign "X" is placed after the certificate number, it indicates that the equipment or protective system is subject to special conditions for safe use specified in the schedule to this certificate.

[11] This EC-TYPE EXAMINATION CERTIFICATE relates only to the design, examination and tests of the specified equipment or protective system in accordance to the Directive 94/9/EC. Further requirements of the Directive apply to the manufacturing process and supply of this equipment or protective system. These are not covered by this certificate.

[12] The marking of the equipment or protective system shall include the following:

⊕ II 2 G EEx d IIC T6

This certificate may only be reproduced in its entirety and without any change, schedule included.

Date 16 September 2002 – Translation issued the 16 September 2002

Prepared
Enrico Radaelli

Enrico Radaelli

Verified
Mirko Balaz

Mirko Balaz

Approved
Ulisse Colombo

CESI

CENTRO ELETTROTECNICO SPERIMENTALE ITALIANO
Business Unit Certificazione

Il Responsabile

Ulisse Colombo

[13]

Schedule

[14] **EC-TYPE EXAMINATION CERTIFICATE n. CESI 02 ATEX 084**

[15] **Description of equipment**

Gas detectors type NET//E are used in atmospheres mainly composed by air to detect methane (CH₄) which concentration is expressed as a % LEL (Lower Explosion Limit). The detectors are composed by an industrial catalytic sensor and an electronic circuit contained in an flameproof enclosure. The catalytic sensors are subject of the component certificate CESI 01 ATEX 013U, whereas the detectors complete (sensor, electronic circuit and flameproof enclosure) are subject of certificate CESI 01 ATEX 053.

In the identification code there is a letter to identify the manufacturer of the enclosure (F, C, I).

The identification code is reported on the label fixed on the sensor and on the enclosure.

This certificate covers the essential health and safety requirements of the detectors NET//E as regards the explosion protection and the functional performances requirements (according to EN 61779-1 and EN 61779-4 standard) of the detector used with methane (CH₄).

The accessories used for cable entries shall be certified according to EN 50014 and EN 50018 Standard.

If cylindrical threads are used, the coupling between the cable gland and the enclosure shall be made according to the requirements indicated in the documents annexed to this certificate.

Electrical and functional characteristics

Voltage supply:	12 ÷ 24 V -20% +15%
Maximum input current:	500 mA
Maximum power dissipated:	6 W
Measurement range:	0 + 100 % LEL (Lower Explosion Limit)
Proportional output:	4 ÷ 20 mA (on 200 Ω)
Warm-up time:	5 min.
Stabilization time:	< 1 min.
Time of response t(50):	< 20 s
Time of response t(90):	< 60 s
Precision:	±5% of the range or ±10% of the reading
Operating temperature:	-10 ÷ +60 °C
Relative humidity:	20 + 90 % Rh / 40 °C
Operating pressure:	80 ÷ 110 kPa
Alarms:	non latching type

For other functional characteristics see the documents annexed to this certificate.

Warning label

“Do not open when energized”

[13]

Schedule

[14] **EC-TYPE EXAMINATION CERTIFICATE n. CESI 02 ATEX 084**

[16] **Report n. CESI EX-A2/028823**

Routine tests

For all models of the detectors the manufacturer shall carry out the routine tests prescribed at paragraph 24 of EN 50014 standard and for the model NET/I/E the routine tests prescribed at paragraph 16 of EN 50018 Standard.

The manufacturer is exempted from the overpressure test on the models NET/F/E and NET/C/E since the relative enclosures have been submitted, with favourable result, to a routine overpressure test with the static method at a value corresponding to four times the reference pressure.

On the model NET/I/E the routine overpressure test shall be carried out at 13,5 bar with the static method (par. 15.1.3.1 of EN 50018 Standard).

The manufacturer shall carried out the routine test described in the documents annexed to this certificate to verify the detectors functional performances.

Descriptive documents (prot. EX-A2/028828)

- n. ST1013 Rev. 3	(40 pg.)	dated	12.09.2002
- n. MT1014 Rev. 0	(15 pg.)	dated	06.05.2002
- n. IS896 Rev. 0	(5 pg.)	dated	12.09.2002
- n. ME1119 Rev. 0	(3 pg.)	dated	12.09.2002
- n. NETPEL Rev. 2	(5 pg.)	dated	04.06.2002
- Dichiarazione di conformità		dated	12.09.2002

One copy of all documents is kept in CESI files.

[17] **Special conditions for safe use**

None.

[18] **Essential Health and Safety Requirements**

Assured by compliance to the Standards.



EXTENSION n. 01/08

to EC-Type Examination Certificate CESI 02 ATEX 084

Equipment: Gas detectors series ST

Manufacturer: SENSITRON S.r.l.

Address: Via della Repubblica 48 – 20100 Cornaredo - MI - Italy

Admitted variation

- change of identification code from NET/ in ST/;
- change of the manufacturer address from *Via A. Manzoni 19 – Pogliano Milanese (MI) ITALY* to *Viale della Repubblica 48 – Cornaredo (MI) ITALY*;
- constructional modification;
- conformity to EN60079-0 (2006), EN60079-1 (2004), EN61241-0 (2006), EN61241-1 (2004), EN60079-29-1 (2007) Standards.

Details of the admitted variations are specified in the descriptive documents annexed to this extension.

Marking

The gas detectors type ST/ shall be marked as follows:

II 2G Ex d IIC T6

II 2GD Ex d IIC T6 Ex tD A21 IP65 T85°C

The different marking, in function of the detectors constructional characteristics, is detailed in the descriptive documents annexed to this extension.

This extension and annexed descriptive documents must be annexed to the EC-Type Examination Certificate CESI 02 ATEX 084.

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date 23 October 2008 - translation issued the 23rd October 2008

prepared Enrico Radaelli

verified Mirko Balaz

approved Fiorenzo Bregani

CESI S.p.A.
Divisione Energia
"Area Tecnica Certificazione"
Il Responsabile

page 1/3

EXTENSION n. 01/08

to EC-Type Examination Certificate CESI 02ATEX 084

Description and identification of the equipment

The gas detectors series ST are composed by a gas sensor containing the sensitive element coupled with a flameproof enclosure containing electronic circuits.

The sensors are subject of the component certificates CESI 01ATEX013U, CESI 01ATEX066U and relevant extensions, whereas the complete detectors (sensor, electronic circuits and flameproof enclosure) are subject of certificate CESI 01ATEX053 and relevant extensions.

The gas detectors series ST, besides to detect methane (CH₄), are also suitable to detect other type of gas. In the following the representatives gas of the gas groups referred to this extension are reported:

Acetylene, Acetone, Ethyl alcohol, Ammonia, Ammonia (20000 ppmv full scale), Diethyl ether, Ethylene, Hydrogen, Propane, Propylene.

The complete list of the gas related to the detectors subject of this extension is detailed in the annexed descriptive documents.

The type of gas is specified on the equipment identification label.

The gas detectors series ST are identified by the following code that replaces the previous code at the date of the present extension:

ST/ * / E
_____ Code of the manufacturer/type of the enclosure:
F ; C ; CD ; L ; LD ; LI

The complete code and the detectors characteristics are reported in the annexed documents.

This extension covers the essential health and safety requirements of the detectors series ST as regards the explosion protection and the functional performances requirements (according to the standards in page 1) for the use with the types of gas specified in the annexed documents..

Electrical an functional characteristics

Unchanged.

Cable entries

The accessories used for the cable entries and to close the unused holes, shall be certified according to the EN60079-0 and EN60079-1 and shall be used according to the instructions reported in the relevant certificate. For the detectors installed in zones with presence of combustible dust the accessories used for the cable entries and to close the unused holes shall be marked 2GD and guarantee a minimum degree of protection IP65 according to the EN60529 Standard.

EXTENSION n. 01/08

to EC-Type Examination Certificate CESI 02ATEX 084

Report n. EX-A8030481.

Routine tests

The manufacturer shall carried out the routine tests prescribed at par. 27 of EN 60079-0 Standard and at par. 24 of EN 61241-0 Standard.

Descriptive documents (prot. EX-A8030485)

- Technical Note NTEX 1732	(pg. 13)	dated	22.10.2008
- Safety Instructions ISEX 896 rev.2	(pg. 6)	dated	08.10.2008
- MEEEX1736 rev. 4		dated	08.10.2008
- MTEX2080	(pg. 14)	dated	14.10.2008
- MTEX2082	(pg. 13)	dated	15.10.2008
- ST58 rev. 1	(pg. 15)	dated	07.04.2008
- Declaration of Conformity 02ATEX0084 rev.02		dated	22.10.2008

One copy of all documents is kept in CESI files.

Essential Health and Safety Requirements

The Essential Health and Safety Requirements are assured by compliance to the following standards:

- EN 60079-0: 2006 – Electrical apparatus for explosive gas atmosphere -General requirements.
- EN 60079-1: 2004 – Electrical apparatus for explosive gas atmosphere - Flameproof enclosure “d”.
- EN 61241-0: 2006 - Electrical apparatus for use in the presence of combustible dust -General requirements
- EN 61241-1: 2004 - Electrical apparatus for use in the presence of combustible dust - Protection by enclosures “tD”.
- EN 60079-29-1: 2007 – Performance requirements of detectors for flammable gases.