

CESI

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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

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

ATEX E-C-02

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 030

[4] **Equipment:** Level meters series SMT, SCR, SLR, SMU.

[5] **Manufacturer:** EL.FIT S.p.A.

[6] **Address:** Via Aquileia 12, Villesse (Gorizia - 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-A2/012730.

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

EN 50014: 1997 + A1..A2 EN 50018: 2000 EN 50284:1999 EN 50281-1-1:1999

[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 1/2 GD EEx d IIC T6 IP 66 T85 °C

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

Date July 29th, 2002 translation issued on July 29th, 2002

Prepared
Mirko Balaz

Approved
Ulisse Colombo

CESI
CENTRO ELETTROTECNICO SPERIMENTALE ITALIANO
Business Unit Certificazione

Responsabile

[13]

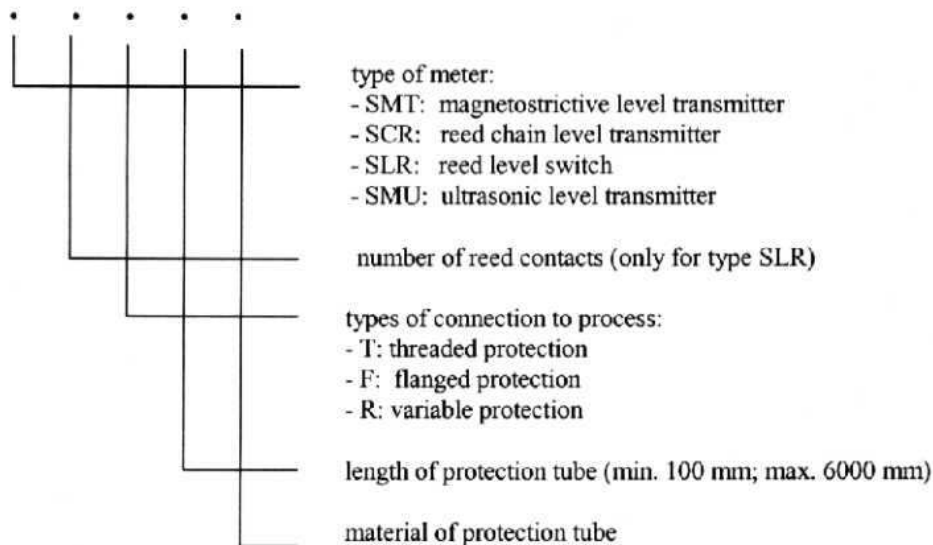
Schedule

[14] **EC-TYPE EXAMINATION CERTIFICATE n. CESI 02 ATEX 030**

[15] **Description of equipment**

The level meters subject of this certificate are made by a measuring rod and by an enclosure type GUA containing the electronic devices and the terminal block.

The level meters are identified by a code as follows:



The detailed description of the level meters and their constructional characteristics are reported in the documents annexed to this certificate.

Electrical characteristics

Supply voltage	5 ÷ 30 Vdc
Max. input	200 mA
Output	Serial: RS485 Analogic: 4 ÷ 20 mA Ohmic: 0 ÷ 100 kΩ On-off: from reed contact
Ambient temperature	- 40 ÷ + 60 °C
Temperature class	T6
Degree of protection	IP 66 (EN 60529 – 1991)
Max. surface temperature of the enclosure	T85°C

The accessories used for cable entries and for closing unused apertures shall have a degree of protection IP 66 and shall be certified according to the standards EN 50014, EN 50018 and EN 50281-1-1.

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



[13]

Schedule

[14] **EC-TYPE EXAMINATION CERTIFICATE n. CESI 02 ATEX 030**

[16] **Report n. EX-A2/012735**

Routine tests

The manufacturer shall carry out the routine tests prescribed at clause 24 of the EN 50014 standard.
 The manufacturer is exempted from the routine overpressure test on the enclosure since the enclosures have passed the type overpressure test carried out with the static method at 35.5 bar, that is at 4 times the reference pressure.
 The routine overpressure test shall be carried out on each protection tube at the pressure of 20 bar with the static method (par.15.1.3.1 of EN 50018 standard).

Descriptive documents (prot. EX-A2/012731)

- n° A4-845 Rev. 0 (11 p.)	dated	15.02.2002
- n° A3-267 Rev. 0	dated	05.03.2002
- n° A3-268 Rev. 0	dated	04.04.2002
- n° A3-269 Rev. 0	dated	05.03.2002
- n° A3-271 Rev. 0	dated	05.03.2002
- n° A3-272 Rev. 0	dated	07.03.2002
- n° A3-273 Rev. 0	dated	26.07.2002
- n° A3-274 Rev. 0	dated	04.04.2002
- n° A3-295 Rev. 0	dated	29.07.2002
- n° A4-858 Rev. 0	dated	29.07.2002
- n° A4-859 Rev. 0	dated	29.07.2002
- n° A4-860 Rev. 0	dated	29.07.2002
- n° A3-260 Rev. 0	dated	15.02.2002
- n° A3-270 Rev. 0	dated	05.03.2002
- n° A4-843 Rev. 0	dated	15.02.2002
- n° A4-844 Rev. 0	dated	05.03.2002
- n° A4-846 Rev. 0	dated	05.04.2002
- Annexe 1 (8 p.)	dated	25.07.2002
- Annexe 2 (2 p.)	dated	25.07.2002
- Annexe 3 (4 p.)	dated	25.07.2002
- Annexe 4 (9 p.)	dated	25.07.2002
- Technical specification elastomer EPDM 70 black	dated	29.11.2001
- Technical specification elastomer NBR 70 black	dated	03.11.2000
- Technical specification elastomer Silicone 70 red	dated	04.02.2002
- Technical specification elastomer FKM (VITON) 70 black	dated	29.11.2001
- Safety instructions Annexe A/24 (5 p.) Rev. 0	dated	02.04.2002
- EC declaration of conformity n° CE/009	dated	02.04.2002

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

None.

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

Covered by standards.

EXTENSION n. 01/06



to EC-Type Examination Certificate CESI 02ATEX030

Equipment: Level meters series SMT-SCR-SLR-SMU

Manufacturer: EL.FIT s.p.a.

Address: Via Aquileia,12 – 34070 – Villesse (Gorizia)

Admitted variation

New length protection tube from 100 ÷ 12000 mm.

Report n. EX-A5/060544

Descriptive documents (prot. EX-A5060547)

Technical Report

Technical note n. A4-845 (11 pagine) Rev. 1 del 29.04.2004

Drawing n. A3-268 Rev. 1 del 25.03.2004

Drawing n. A3-272 Rev. 1 del 25.03.2004

One copy of all documents is kept in CESI files.

This extension and annexed descriptive documents must be annexed to the EC-Type Examination Certificate CESI 02ATEX030.

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

date 28 December 2005 - translation issued the 22 December 2005

prepared Pierluigi Molinari

verified Mirko Balaz

approved Ulisse Colombo

CENTRO ELETTROTECNICO SPERIMENTALE ITALIANO

Business Unit Certificazione

Responsabile

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Prot. A5060546

P: 1

EXTENSION n. 02/07



to EC-Type Examination Certificate CESI 02ATEX 030

Equipment: Level meters series SMT, SCR, SLR, SMU

Manufacturer: EL.FIT S.p.A.

Address: Via Aquileia 12, Villesse (GO)

Admitted variation

- Upgrade to EN 60079-0 (2006), EN 60079-1 (2004), EN 60079-26 (2004), EN 61241-0 (2006), EN 61241-1 (2004) Standards
- Upgrade of nameplate

Equipment identification

the equipment shall include the following markings:



II 1/2GD

Ex d IIC T6, Ex tD A21 IP66 T 85 °C

This extension and annexed descriptive documents must be annexed to the EC-Type Examination Certificate CESI 02ATEX030.

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date 18/05/2007 - translation issued the 18/05/2007

prepared Sergio Mezzetti

verified Mirko Balaz

approved Fiorenzo Bregani

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Giacinto Motta SpA

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EXTENSION n. 02/07

to EC-Type Examination Certificate CESI 02ATEX 030

Report n. EX-A7013821

Routine tests

The manufacturer shall carry out the routine tests prescribed at par. 27 of the EN 60079-0 (2006) and at par. 24 of the EN 61241-0 (2006) Standards.

The routine overpressure test shall be carried out, on each protection tube, with the static method according to the par. 15.1.3.1 of EN 60079-1 (2004) Standard, at the pressure of 20 bar.

Descriptive documents (prot. EX-A7013824)

- Technical Note A4-845(10 pg.)	Rev. 02	dated	14/03/2007
- Drawing n°. A3-270	Rev. 01	dated	14/03/2007
- Drawing n°. A4-1130	Rev. 00	dated	06/04/2007
- Drawing n°. A4-1131	Rev. 00	dated	06/04/2007
- EC Declaration of Conformity		dated	14/03/2007
- Safety Instruction A24 (5 pg.)	Rev. 01	dated	14/03/2007

One copy of all documents is kept in CESI files.

Essential Health and Safety Requirements

The Health and Safety Requirements are assured by compliance with the following Standards:

- EN 60079-0 : 2006: Electrical apparatus for explosive gas atmospheres.
General requirements
- EN 60079-1 : 2004 Flamoproof enclosures "d".
- EN 60079-26:2004 Construction, test and marking of Group II, Category 1G electrical apparatus
- EN 61241-0 : 2006 Electrical apparatus for use in the presence of combustible dust.
General requirements
- EN 61241-1 : 2004 Protection by enclosures "tD"

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