

# CESI

CESI  
Centro Elettrotecnico  
Sperimentale Italiano  
Giacinto Motta SpA

Via R. Rubattino 54  
20134 Milano - Italia  
Telefono +39 022125.1  
Fax +39 022125440  
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

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



## EC-TYPE EXAMINATION 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 027**
- [4] Equipment: **Electronic pressure transmitters series 2600T**
- [5] Manufacturer: **ABB Instrumentation spa**
- [6] Address: **Via Statale 113, Lenno (Como - 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-A2/011987.
- [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 67 T85 °C**

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

Date April 26<sup>th</sup>, 2002 translation issued on April 26<sup>th</sup>, 2002

Prepared  
Mirko Balaz

Approved  
Ulisse Colombo

**CESI**

**CENTRO ELETTROTECNICO SPERIMENTALE ITALIANO**  
Business Unit Certificazione

*Il Responsabile*

[13]

## Schedule

[14] **EC-TYPE EXAMINATION CERTIFICATE n. CESI 02 ATEX 027**

[15] **Description of equipment**

The pressure transmitters series 2600T are micro-processor based smart transmitters which adopt inductive, piezoresistive and capacitive sensors. The 2600T series includes an analogic version with HART digital communication and a digital version with protocol PROFIBUS or FOUNDATION.

The pressure transmitters series 2600T are identified by a code where the main characters are as follows:

26 . . . .  
a b c d

where:

26: series 2600T  
a: performance (2, 4, 6 or 8)  
b: measure (B, D, G, V...)  
c: application (S, R)  
d: measuring range (A, B, C, D...)

Other optional codes are used to indicate other characteristics.

A detailed description of the different models is given in the Technical Note N. DH0024 annexed to this certificate.

### Electrical characteristics

Max. supply voltage	42 [Vd.c.]
Max. supply power:	2 [W]
Output signal	4 ÷ 20 [mA] + digital signal
Ambient temperature	- 40 ÷ + 75 °C

Temperature class of transmitters category 1/2 G: T6

Maximum surface temperature T of transmitters category 1/2 D: T85 °C

Degree of protection IP 67 (EN 60529 – 1991)

The accessories used for cable entry and for closing unused apertures shall guarantee a degree of protection IP 67 and shall be certified according to the standards EN 50014, EN 50018 and EN 50281-1-1.

### Plate warnings

Supply by cable with maximum service temperature not less than 80 °C.

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 027**

[16] **Report n. EX-A2/011987**

### 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 tests on the series 2600T transmitters since these transmitters have passed the overpressure type test performed with the static method at a pressure of 52 bar, equal to 4 times the reference pressure.

### Descriptive documents (prot. EX-A2/011985)

- Technical note n. DH0024 (3 p.)	dated 25.02.2002
- Drawing n. DH 0013	dated 10.02.2002
- Drawing n. DH 0014	dated 10.02.2002
- Drawing n. DH 0015	dated 10.02.2002
- Drawing n. DH 0017	dated 10.02.2002
- Drawing n. DH 0018	dated 10.02.2002
- Drawing n. DH 0021 (2 p.)	dated 10.02.2002
- Drawing n. DH 0028	dated 10.02.2002
- Operating and safety instructions (51 p.)	dated 24.04.2002
- EC declaration of conformity	dated 29.03.2002

One copy of all documents is kept in CESI files.

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

None.

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

Covered by standards.

## EXTENSION n. 01/04



to EC-Type Examination Certificate CESI 02 ATEX 027

Equipment: **Pressure Transmitter**  
**Series 2600T**

Manufacturer: **ABB SACE S.p.A.**

Address: **Via Statale 113 – 22016 Lenno (CO) - Italy**

**Admitted variations**

- 1) mechanical variation (threads, gasket, warnings);
- 2) new trade mark.

The pressure transmitter series 2600T are identified by a code where the main characters as follows:

**2600T . . . .**

**a b c d**

where

26 : series 2600T;  
a: performance (2,4,6 or 8);  
b: measure (e.g.: B,D,G,V...etc.);  
c: application (e.g.: S, R...etc.);  
d: measuring range (e.g.: A,B,C,D...etc.)

Report : EX-A4/015719.

Descriptive documents (prot. EX-A4/015720)

- n. Technical Note DH 0024 (3p)	dated	25.02.2002
- n. Supplement 01 for technical note DH 0024	dated	11.05.2004
- n. DH 0013	dated	10.01.2002
- n. DH 0014	dated	10.01.2002
- n. DH 0015	dated	10.01.2002
- n. DH 0017	dated	10.01.2002
- n. DH 0018	dated	10.01.2002
- n. DH 0021 rev. 0 (2 pg.)	dated	10.01.2002
- n. DH 0021 rev. 1 (2 pg.)	dated	04.11.2003
- n. DH 0028 rev. 1	dated	09.01.2003
- n. EC Declaration of Conformity	dated	16.01.2003
- n. Operating and Safety Instructions (60p)	dated	21.10.2003

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 02 ATEX 027.

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

**date** June 21, 2004 - translation issued the June 21, 2004

**prepared** CERT – F. Esposito

**verified** CERT – D. Cavanna

**approved** CERT – U. Colombo

**CESI**  
CENTRO ELETTROTECNICO SPERIMENTALE ITALIANO  
Business Unit Certificazione

51/Responsabile

page 1/1

Prot. A4/015722 P: 1  
Keywords 13010R 27420G 48030A 54250O 66540E

## EXTENSION n. 02/05



to EC-Type Examination Certificate CESI 02 ATEX 027

Equipment: **Pressure Transmitter  
Series 2600T**

Manufacturer: **ABB SACE S.p.A.**

Address: **Via Statale 113 – 22016 Lenno (CO) - Italy**

**Admitted variations**      new ambient temperature range : -50°C ÷ 75°C only for version with blind cover

### 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 tests on the series 2600T transmitters since these transmitters have passed the overpressure type test performed with the static method at a pressure of 52 bar for the windowed cover series and 55 bar for the blind cover series, equal to 4 times the reference pressure

### Report

CESI EX-A5/011273.

Descriptive documents (prot. EX-A5/011277)

- n. DH3043

dated 18.01.2005

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 02 ATEX 027.

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

**date**                      March 25, 2005 - translation issued the March 25, 2005

**prepared**                CERT – F. Esposito

**verified**                 CERT – D. Cavanna

**approved**                CERT – U. Colombo

**CESI**  
CENTRO ELETTROTECNICO SPERIMENTALE ITALIANO  
Business Unit Certificazione  
RI/Responsabile

page 1/1

Prot. A5/011279

P: 1 + 1

Keywords

13010R    27420G    48030A    54250O    66540E

## EXTENSION n. 03/08



to EC-Type Examination Certificate CESI 02 ATEX 027

Equipment: Pressure Transmitters Series 2600T.

Manufacturer: **ABB S.p.A.**

Address: Via Statale 113, Lenno (CO)

### Admitted variation

- Change of company name to "ABB SpA"
- Conformity to Standards EN 60079-0 (2006), EN60079-1 (2007), EN60079-26 (2006), EN 61241-0 (2006), EN 61241-1 (2004)

The verifications and test results are reported in the confidential report EX- A8006299.

### Equipment identification and description

The pressure transmitters series 2600T are normally placed in zone 1 and are separated from zone 0/20 by means of a partition wall.

The marking of the equipment shall include the following:

II 1/2 G Ex d IIC T4/T5/T6 or :

II 1/2 D Ex tD A21 IP67 T85°C (-40 ≤ Ta < 85 °C)

This extension and annexed descriptive documents must be annexed to the EC-Type Examination Certificate CESI 02 ATEX 027.

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

date translation issued 28 febbraio 2008

prepared Giorgio Chinnici

verified Mirko Balaz

approved Fiorenzo Bregani

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

pagina 1/2

## EXTENSION n. 03/08

to EC-Type Examination Certificate CESI 02 ATEX 027

### Routine tests

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

It is not mandatory for the manufacturer to carry out the overpressure routine test on the pressure transmitter series 2600T, because the equipment has already passed the type test carried out with static method at the pressure of 52 bar, that is 4 times the reference pressure.

### Descriptive documents (prot. EX- A8006301)

- Technical Note n. DH-3155 Rev. 0 (2 pag.)	dated	15/01/2008
- Drawing n DH 0028 Rev. 2 (1 pag.)	dated	15/01/2008
- Safety Instructions mod. IM/262_4D Rev. 9 (56 pag.)	dated	10/02/2008
- Safety Instructions mod. IM/262_4D Rev. 10 (52 pag.)	dated	10/02/2008
- EC Declaration of Conformity (1 pag.)	dated	16/01/2008
- Change of company name declaration (2 pag.)	dated	12/12/2007

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 : 2007 Flameproof enclosures "d".
- EN 61241-0 : 2006 Electrical apparatus for use in the presence of combustible dust.  
General requirements.
- EN 61241-1 : 2004 Protection by enclosures "ID".

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