

# 1 EC-TYPE EXAMINATION CERTIFICATE



2 Equipment or Protective systems intended for use in Potentially  
Explosive Atmospheres - Directive 94/9/EC

3 EC-Type Examination Certificate No: **FM09ATEX0023X**

4 Equipment or protective system: **2600T Pressure Transmitter, Model 266**  
(Type Reference and Name)

5 Name of Applicant: **ABB SpA**

6 Address of Applicant: **Via Statale 113  
Lenno (Como) 22016  
Italy**

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

8 FM Approvals Ltd, notified body number 1725 in accordance with Article 9 of 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 intended for use in potentially explosive atmospheres given in Annex II to the Directive.  
The examination and test results are recorded in confidential report number 3030274EC dated 24 July 2009

9 Compliance with the Essential Health and Safety Requirements, with the exception of those identified in item 15 of the schedule to this certificate, has been assessed by compliance with the following documents: EN 60079-0: 2006, EN 60079-1: 2007, EN 60079-26: 2004, EN 61241-0: 2006, EN61241-1: 2004, and EN 60529: 1991 +A1: 2000

10 If the sign 'X' is placed after the certificate number, it indicates that the equipment 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:



II 1/2 G Ex d IIC T6 Ta = -50°C to +75°C IP67

II 1/2 D Ex tD A21 IP67 T85°C Ta = -50°C to +75°C IP67

Andrew Was  
Certification Manager, FM Approvals Ltd.

Issue date:

24<sup>th</sup> July 2009.



Member of the FM Global Group

**THIS CERTIFICATE MAY ONLY BE REPRODUCED IN ITS ENTIRETY AND WITHOUT CHANGE**

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# SCHEDULE



to EC-Type Examination Certificate No. FM09ATEX0023X

## 13 Description of Equipment or Protective System:

The 2600T Pressure transmitter, Model 266 consists of an aluminium alloy or stainless steel housing with an internal partition which separates the enclosure into a terminal compartment and an electronics compartment. RF leadthroughs are fitted in the partition wall. The terminal compartment is fitted with a flat threaded cover and the electronics compartment is fitted with a window cover having a cemented-in flat glass window. The housing is also provided with a threaded opening on the electronics side to accommodate a pressure sensor (primary) which can be of gauge or differential design and having various sensor types. All joints are sealed using 'O' rings and all threaded joints are locked against removal.

The enclosure body also has 2 threaded conduit entries and the threads are either M20 x 1.5 or ½ inch NPT.

The 2600T Pressure transmitter, Model 266 is rated at 42V dc, 2W.

The model code is as follows

**26abcdefgh1h2imnoqrstu 2600T Pressure Transmitter, Model 266.**

a = MILE 2: 6

b = measure type and construction: A, C, D, G, H, J, M, N, P, R, or V.

c = application: D\*\*, H, L, R\*\*, or S.

d = performance: H, T.

e = upper range limits: A, B, C, D, E, F, G, H, L, M, N, P, Q, R, S, U, or V.

f = static pressure range: 1, 2, 3, 4, C, H, M, S, W, Y, or Z.

g = transducer diaphragm material and fill fluid : 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, A, B, C, D, E, F, G, H, I, J, K, L, M, N, P, Q, R, S, T, V, W, Y, or Z.

h1 = differential process flanges material & connection : 1, 2, 3, A, B, C, D, E, F, G, H, L, M, P, Q, R, S, T, U, V, or Z.

h2 = gauge connection material and type : 1, 2, 3, A, B, C, D, E, F, H, K, M, N, P, Q, R, S, T, U, V, or Y.

i = gasket: 5, 6, 8 or N.

m. (only for 266 DLH and 266 DHH) = high pressure side process flange standard rating – size : A, B, D, E, M, N, or L.

n (only for 266 DLH and 266 DHH) = high pressure side process flange material-form-finish : A, D, G, or L.

o (only for 266 DLH and 266 DHH) = low pressure side diaphragm material and fill fluid : 4, 5, A, B, C, D, F, H, K, L, M, P, Q, S, or T.

q (only for 266 DLH) = low pressure side seal type and capillary length : 1, 2, 3, 4, 5, 6, 7, 8, M, N, Q, S, T, U, V, or Z.

r = bolts and gasket: 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, C, N, R, or S.

s = electronic housing: A, B, S or T.

t = communication: 1, 2, 3, 8, F, H, P, or T. (If t = F, P, H, or T then u = blank)

u = Options: Blank, or A1, B1, B2, B3, B4, B5, C1, C3, C4, C5, C6, C9, CT, E2, EN, E9, EI, EH, H1, H3, H4, I1, I2, L1, L3, L5, L7, M1, M2, M3, M4, M5, M6, M7, M8, M9, MA, MB, N1, N2, N3, N4, N5, N6, P1, P2, P3, P4, P5, S2, T1, T2, T3, T4, T5, T6, T7, T8, T9, TA, TB, U1, V1, V2, V3, V4, V5, V6, V7, V8, V9, VA, VB, VC, YA, YB, YC, YD, or Z1.

\*\* Note 1 : If option "c" is D or R this denotes remote seal elements.

Code of remote seal :

S6 for 600TEN series

S26 for 2600T series

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# SCHEDULE



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**14 Special Conditions for Safe Use:**

1. When the manufacturer of the equipment has not identified the type of protection on the label, the user shall, on installation, mark the label with the type of protection used.
2. The material of the partition wall (sensing diaphragm) shall not be subject to environmental conditions which might adversely affect it.

**15 Essential Health and Safety Requirements:**

The relevant EHSRs that have not been addressed by the standards listed in this certificate have been identified and assessed in the confidential report identified in item 8.

**16 Test and Assessment Procedure and Conditions:**

This EC-Type Examination Certificate is the result of testing of a sample of the product submitted, in accordance with the provisions of the relevant specific standard(s), and assessment of supporting documentation. It does not imply an assessment of the whole production.

Whilst this certificate may be used in support of a manufacturer's claim, FM Approvals Ltd accepts no responsibility for the compliance of the component against all applicable Directives in all applications.

This Certificate has been issued in accordance with FM Approvals Ltd's ATEX Certification Scheme.

**17 Approved Drawings**

| Drawing No: | Rev | Title / Description  |
|-------------|-----|--|
| DH 3130/1   | 1   | 2600T series pressure transmitter barrel                       |
| DH 0013     | 0   | 2600T Series primary transducer differential Tx inductive type |
| DH 0014     | 0   | 2600T Series primary transducer gauge Tx inductive type        |
| 2-9186 X2   | 1   | primary transducer P-piezo                                     |
| 2-9187 X2   | 1   | primary transducer DP-piezo                                    |
| 2-9188 X2   | 1   | primary transducer DP-piezo- HP                                |
| DH3168      | 3   | 266 safety plates  |
| 2600T       | 0   | Short Instruction Manual                                       |

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Supplement 1 to  
EC-Type Examination Certificate No. FM09ATEX0023X  
in accordance with Clause 6 of Annex III to Directive 94/9/EC.



Equipment or protective system:  
(Type Reference and Name) **2600T Pressure transmitter, Model 266**

Name of Applicant: **ABB SpA**

Address of Applicant: **Via Statale 113  
Lenno (Como)  
Italy**

The examination and test results are recorded in confidential report number 3030281EC Supplement 1 dated 18<sup>th</sup> March 2010.

Description of the supplements and modifications:

13. **Description**

- 1) Addition of alternative self adhesive label
- 2) Removal of Ceramic Isolator in the inductive type pressure sensors

17 **Approved Drawings**

| Drawing No: | Rev | Title / Description  |
|-------------|-----|--|
| DH 0013     | 1   | 2600T Series primary transducer differential Tx inductive type |
| DH 0014     | 1   | 2600T Series primary transducer gauge Tx inductive type        |
| DH 3130     | 2   | 2600T Series pressure transmitter barrell                      |

**Andrew Was**  
**Certification Manager, FM Approvals Ltd.**

Issue date: 18<sup>th</sup> March 2010

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