



Certificado de Conformidade

Certificate of Compliance ♦ Certificado de Conformidad

Certificado N.º: TÜV 13.2460 X

Certificate No. ♦ Certificado N.º:

Revisão: 04

Review ♦ Revisión:

Válido até: January 28, 2023

Valid until ♦ Válido hasta:

Emitido em: January 28, 2020

Issued ♦ Emitido:

Produto:

Product ♦ Producto:

**2600T Pressure Transmitter
266**

Solicitante:

Applicant ♦ Solicitante:

ABB LTDA.

**Rodovia Senador José Ermínio de Moraes, S/N- km 11 – Aparecidinha
18087-125 – Sorocaba – SP
CNPJ: 61.074.829/0087-01**

Fabricante:

Manufacturer ♦ Fabricante:

ABB SPA

**Via Vaccani, 4
22016 Tremezzina (Loc. Ossuccio) Como – Italy**

Fornecedor / Representante Legal:

Supplier / Legal Representative ♦ Proveedor /
Representante Legal:

Not Applicable.

Normas Técnicas / Regulamento:

Standards / Regulation ♦ Normas / Reglamento:

**ABNT NBR IEC 60079-0:2013;
ABNT NBR IEC 60079-1:2016;
ABNT NBR IEC 60079-26:2016;
ABNT NBR IEC 60079-31:2014;
ABNT NBR IEC 60529:2017.
INMETRO Administrative rule # 179 as of May 18th, 2010**

Esquema de Certificação:

Certification Scheme ♦ Esquema de
Certificación:

**Model with evaluation of quality management system of the product
production process and product tests, according to clause 6.1 of the
Conformity Evaluation Rule, attached to the administrative rule nº 179
INMETRO, issued on May 18th, 2010.**

**Laboratório, N.º do Relatório de Ensaios e
Data:**

Laboratory, Test Report No. and Date ♦
Laboratorio, N.º del Informe de Prueba y Fecha:

FM Approvals Ltd

**Test report FM # GB/FME/ExTR09.0001/01 of March 11th, 2010
Test report FM # GB/FME/ExTR09.0001/03 of January 19th, 2012
Test report FM # GB/FME/ExTR09.0001/06 of October 22nd, 2012
Test report FM # GB/FME/ExTR09.0002/00 of July 24th, 2009
Test report FM # GB/FME/ExTR09.0002/01 of August 2nd, 2012
Test report FM # GB/FME/ExTR16.0002/00 of July 28th, 2016
TÜV Rheinland do Brasil Ltda
Test report TÜV nº 5732-01-AEX-2017 of September 15th, 2017;
Test report TÜV nº 5732-02-AEX-2017 of September 15th, 2017;
Test report TÜV nº 5732-03-AEX-2017 of September 15th, 2017;
Test report TÜV nº 5732-04-AEX-2017 of September 15th, 2017.**

Relatório de Auditoria e Data:

Audit Report and Data ♦ Informe de Auditoría y
Fecha:

Audit carried out on 17/02/2020 PO 0066-20.

Notas:

Notes ♦ Anotación:

**"The validity of this Certificate of Compliance is related to fulfillment of
the maintenance assessments and possible non conformities processing,
according to OCP's orientation established into specific RAC. To confirm
the current status of this Certificate of Compliance the INMETRO's
products and services certified database shall be checked."
This certificate is related to offer 27120571 from January 29th, 2020**

Igor Moreno
Local Field Manager

**"This document is composed of 06 pages and is valid when displayed
with all your pages. Further information and notes are contained on
subsequent pages."**

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List of models

Marca <i>Brand ♦ Marca</i>	Modelo <i>Model ♦ Modelo</i>	Descrição <i>Description ♦ Descripción</i>	Código de Barras GTIN <i>GTIN Barcode ♦ Código de Barras GTIN</i>
ABB	266	Pressure Transmitter	Non Existent

Description:

The 2600T Pressure transmitter, model 266 consists of an aluminum 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.

Electrical ratings:

	Modbus version	Other versions
U	30 Vdc	42 vdc
P	2 W	2 W

Pressure transmitters could be assembled as follow:

1 – Pressure transmitter model 266bcdefghimnoqrstu:

Where:

- b** – measure type and construction: A, C, D, G,H, J, M, N, P, R or V;
- c** – application: D¹, H, L, R¹ or S;
- d** – single character – not relevant;
- e** – single character – not relevant;
- f** – single character – not relevant;
- g** – transducer diaphragm material – 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, V, W, Y, or Z;
- h** – single character – not relevant;
- i** – single character – not relevant;
- m** – only for models 266 DLH and 266 DHH – size A, B, D, E, M, N or L;
- n** – only for models 266 DLH and 266 DHH – A, D, G or L;
- o** – only for models 266 DLH and 266 DHH – 4, 5, A, B, C, D, F, H, K, L, M, P, Q, S or T;
- q** – only for model 266 DLH – 1, 2, 3, 4, 5, 6, 7, 8, M, N, Q, S, T, U, V or Z;
- r** – bolts and gaskets – 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, C, N, R, T or S;
- s** – electronic housing – A, B, C, D, S or T;
- t** – communication – 1, 2, 3, 7 or 8;
- u** – option² – AA, AB, AC, A1, A2, A3, B², C², D², H², I², L1, L3, L5, L7, L9, M², N², P², T², R1, S2, V1, V2, V3, V4, V5, V6, V7, V8, V9, VA, VB, VC, Y², Z1², W6³ or W8³.

Notes:

- 1 – if D or R, denotes remote seal elements (S6 for 600TEN and S26 for 2600T);
- 2 – any single letter or number;
- 3 – type of protection (W6 = Ex d / Ex tb, W8 = multiple protection).

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2 – Pressure transmitter Modbus version model 266bcdefghirs7u,:

Where:

- b** – measure type and construction: C or J;
- c** – application: D¹, R¹ or S;
- d** – single character – not relevant;
- e** – single character – not relevant;
- f** – single character – not relevant;
- g** – transducer diaphragm material – 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, V, W, Y, or Z;
- h** – single character – not relevant;
- i** – single character – not relevant;
- r** – bolts and gaskets – 3, 4, 5, 6, 7, T or R;
- s** – electronic housing – A, B, C, D, S or T;
- u** – option² – AA, AB, AC, A1, A2, A3, B², C², D², F², H², I², L1, L3, L5, L7, L9, M², N², P², T², R1, S2, V1, V2, V3, V4, V5, V6, V7, V8, V9, VA, VB, VC, Y², Z1, W6³ or W8³.

Notes:

- 1 – if D or R, denotes remote seal elements (S6 for 600TEN and S26 for 2600T);
- 2 – any single letter or number;
- 3 – type of protection (W6 = Ex d / Ex tb, W8 = multiple protection).

3 – Pressure transmitter (Integrated HMI option) model 266bcdefghimnoqrs7u,:

Where:

- b** – measure type and construction: D, H, P or N;
- c** – application: D¹, R¹, H, L or S;
- d** – single character – not relevant;
- e** – single character – not relevant;
- f** – single character – not relevant;
- g** – transducer diaphragm material – 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, V, W, Y, or Z;
- h** – single character – not relevant;
- i** – single character – not relevant;
- m** – only for models 266 DLH and 266 DHH – tamanhos A, B, D, E, M, N or L;
- n** – only for models 266 DLH and 266 DHH – A, D, G or L;
- o** – only for models 266 DLH and 266 DHH – 4, 5, A, B, C, D, F, H, K, L, M, P, Q, S or T;
- q** – only for model 266 DLH – 1, 2, 3, 4, 5, 6, 7, 8, M, N, Q, S, T, U, V or Z;
- r** – bolts and gaskets – 1, 2, 3, 4, 8, 9, R or S;
- s** – electronic housing – A, B, C, D, S or T;
- u** – option² – AA, AB, AC, A1, A2, A3, A8, A9, B², C², D², F², H², I², LS, M², N², P², T², S2, R1, UC, V1, V2, V3, V4, V5, V6, V7, V8, V9, VA, VB, VC, Z1, W6³ or W8³.

Notes:

- 1 – if D or R, denotes remote seal elements (S6 for 600TEN and S26 for 2600T);
- 2 – any single letter or number;
- 3 – type of protection (W6 = Ex d / Ex tb, W8 = multiple protection).



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Testing and analysis performed:

The testing and analysis performed are described on technical report # TÜV 13.2460.

Technical Documentation:

Document	Pages	Description	Rev.	Date
2-9186 X1	1	Primary Transducer P-Piezo	4	18/08/2011
2-9187 X1	1	Primary Transducer DP-Piezo	1	17/11/2008
2-9188 X1	1	Primary Transducer DP-Piezo HP	1	17/11/2008
3KXP000003U0121	5	Communication Board MODBUS	0	10/02/2014
3KXP000003U0122	1	Communication Board MODBUS - Multivariable	0	20/06/2013
3KXP000003U0123	2	Communication Board MODBUS – Multivariable T-Flow	0	25/11/2013
3KXP001001U0011	1	Connection board schematic	7	19/03/2012
3KXP001001U0021	7	Connection board (for mid tier pressure)	5	07/02/2012
3KXP001001U0030	1	Connection board Hart "BOM" reed	D	19/03/2012
3KXP001001U0031	1	Connection board reed	2	08/12/2011
2104734	4	Assembly Drawing RTD Interface PCBA	AB	26/10/2012
2104770	4	Assembly Drawing TF Measurement BD PCBA	AB	29/01/2013
DH 0013	1	2600T Series Primay Transducer, Differential Tx Inductive	2	27/04/2011
DH 0014	1	2600T Series Primay Transducer, Gauge Tx Inductive	2	27/04/2011
DH3084	1	Common HMI	2	26/03/2008
DH 3114	1	MILE2 : HART Communication	1	09/04/2009
DH3114	1	Mile 2 Series- FrontEnd board	1	24/03/2009
DH 3130	4	2600T Series 266 Pressure Transmitter (flameproof)	4	04/06/2014
DH 3169	2	2600T Series 266 Pressure Transmitter	2	08/02/2010
DH 3170	2	2600T Series 266 Pressure Transmitter	3	19/04/2011
DH 3183	1	2600T Series – Pressure Transmitters model 266	0	22/06/2010
DH3190	1	2600T Series Primary transducer, Gauge Tx	0	14/04/2011
DH3191	1	2600T Series 266 Interface board 1000 bar	0	10/02/2012
DH3192	2	2600T Series 266 Interface board 1000 bar PCB	0	10/02/2012
DH3193	1	Second FrontEnd for Multivariable	0	11/05/2012
DH3194	2	2600T Series 266 MV : Second Front End	2	18/11/2009
DH3198	1	2600T Series Primay Transducer, Gauge Tx Inductive	0	04/07/2011
DH3199	1	2600T Series Primay Transducer, Gauge Tx Inductive	0	04/07/2011
DH3200	1	2600T Series Primay Transducer, Gauge Tx Inductive	0	04/07/2011
DH3201	1	2600T Series Primay Transducer, Gauge Tx Inductive	0	04/07/2011
DH3223	1	2600T Series Primay Transducer, Gauge Tx Inductive	0	12/03/2012
OI/266/HART-PT	76	Instruções de operação	H	01/2013
DH 3188	1	2600T Series Inmetro 266 Safety plates	4	26/02/2020



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Marking:

The 2600T Pressure transmitter, model 266 was approved in the tests and analysis, in accordance to the applicable standards and they shall have the following marking, taking into account, the item "Remarks".

**Ex db IIC T6 Ga/Gb
Ex tb IIIC T85 °C Db
IP66W / IP67W / IP68W
-50 °C ≤ T_{amb} ≤ +75 °C**

Remarks:

1. The certificate number has the letter X to indicate the following restriction for use:
The size of explosion proof joints must not be modified. For further information contact directly the manufacturer.
The material of the partition wall (sensing diaphragm) shall not be subject to environmental conditions which might adversely affect it.
The model 266 main electronics enclosure option s= A or B contains aluminum and is considered a potential risk of ignition by impact or friction. Care must be taken into account during installation and use to prevent impact or friction.
The index protection IP68W meets the equivalent pressure of 2 meters of water column for 1 hour.
2. This certificate is valid for the products with the same model and type number according to the prototype tested. Any modification in the project, as well as the use of components apart from those defined by the product documentation, without previous authorization from TÜV Rheinland, will invalid this certificate.
3. It is manufacturer responsibility to assure that the manufactured products are in accordance to the tested prototype specification, through of visual, dimensional inspections and routine testing.
4. The products must bear, on the external surface and in a visible place, the conformity marking and the technical characteristics in accordance to the standards ABNT NBR IEC 60079-0 / ABNT NBR IEC 60079-1 / ABNT NBR IEC 60079-26 / ABNT NBR IEC 60079-31 / ABNT NBR IEC 60529 and Regulation on Conformity Assessment, attached to INMETRO administrative rule # 179, issued on May 18th, 2010. This marking must be legible and durable, taking into account, all possible chemical corrosion.
5. The activities of installation, inspection, maintenance, repair, overhaul and recovery of products are the user's responsibility and must be performed in accordance with the requirements of current technical standards and the manufacturer's recommendations.



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Natureza das Revisões / Data

Nature of Reviews/Date ♦

Naturaleza de las Revisiones / Fecha

Review 00:	January 28, 2014 – Initial certification;
Review 01:	December 26, 2016 – Update of manufacturer address ABB SPA and inclusion of new assembly options;
Review 02:	January 13, 2017 – Revalidation
Review 03:	October 05rd, 2017 - Inclusion of ABNT NBR IEC 60529 with numerals of protection IP66W / IP67W / IP68W.
Review 04:	March 26, 2020 – Revalidation, exclusion of the Minden manufacturer and update marking.

Para confirmar sua autenticidade acesse <https://tuv.3dds.digital/check/53856865122835414>

