

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Pressure Transmitter

with type designation(s)
2600T - 266

Issued to

ABB S.p.A. - IAMA Division
Tremezzina (loc. Ossuccio) CO, Italy

is found to comply with

DNV GL rules for classification – Ships, offshore units, and high speed and light craft

Application :

Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV GL.

Location classes:

Temperature	D
Humidity	B
Vibration	B
EMC	B
Enclosure	C / IP67

Issued at **Hamburg** on **2019-06-29**

This Certificate is valid until **2022-06-21**.
DNV GL local station: **Milan**

Approval Engineer: **Dariusz Lesniewski**



Digitally Signed By: Rinkel, Marco

for **DNV GL**

Location: Hamburg, on behalf of

Joannis Papanuskas
Head of Section

This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid. The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.



Job Id: **262.1-009438-4**
Certificate No: **TAA000017M**
Revision No: **1**

Product description

2600T Series pressure transmitters for absolute-, gauge- and differential pressure available in the following base models:

266	D	differential	S	standard construction	T	top performance
	M	diff. multisensor	R	with remote seals*	H	hi performance
	R	diff. absolute	D	with one direct mount diaphragm seal + a possible remote seal*	X	different performance
	G	gauge				
	A	absolute	L	with one direct mount diaphragm seal + remote seal*		
	H	gauge hi overload				
	N	absolute hi overload	H	flange mounted (no diaphragm seal)		
	V	absolute dp style	V	with two diaphragm seal* very hi performances		
	P	gauge dp style				
	J	dual output				
	C	multivariable				

* **S26X** Remote seal

E.g. Model 266DSH is a differential transmitter with standard construction and high performance

External communication protocols: Profibus PA, Foundation Fieldbus or HART 4-20 mA.
For further details, see respective data sheets as listed under Type Approval documentation.

Place of manufacture

ABB S.p.A.
Via L. Vaccani 4
22016 Tremezzina (Loc. Ossuccio) Como, Italy

ABB Automation Engineering Co., Ltd.
No 4528, KangXin Highway, KangQiao Town,
Pudong new District, Shanghai, P.R. China

ABB Automation Products GmbH
Schillerstr. 72
32425 Minden, Germany

ABB Inc.
125 East County Line Road
Warminster, PA 18974, USA

Application/Limitation

The Type Approval covers hardware listed under Product description. When the hardware is used in applications to be classed by DNV GL, documentation for the actual application is to be submitted for approval by the manufacturer of the application system in each case. Reference is made to DNV GL rules for classification of ships Pt.4 Ch.9 Control and monitoring systems.

Ex-certification is not covered by this certificate. Application in hazardous area to be approved in each case according to the Rules and Ex-Certification / Special Condition for Safe Use listed in valid Ex-certificate issued by a notified/recognized Certification Body.

Ex-loops are to be documented according to the requirements in Pt.4 Ch.8 Sec.11.

Type Approval documentation

Job Id: **262.1-009438-4**
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Document type

2600T Series Pressure Transmitters, Data Sheet, Model 266CRH/CRT/JRH/JRT
 2600T Series Pressure Transmitters, Data Sheet, Model 266CSH/CST/JSH/JST
 2600T Series Pressure Transmitters, Data Sheet, Model 266DHH
 2600T Series Pressure Transmitters, Data Sheet, Model 266DLH
 2600T Series Pressure Transmitters, Data Sheet, Model 266GST/AST
 2600T Series Pressure Transmitters, Data Sheet, Model 266HSH/NSH
 2600T Series Pressure Transmitters, Data Sheet, Model 266MRH
 2600T Series Pressure Transmitters, Data Sheet, Model 266MSH
 2600T Series Pressure Transmitters, Data Sheet, Model 266MST/RST
 2600T Series Pressure Transmitters, Data Sheet, Model 266DDH/HDH/NDH
 2600T Series Pressure Transmitters, Data Sheet, Model 266MDT/GDT/ADT
 2600T Series Pressure Transmitters, Data Sheet, Model
 266DRH/PRH/HRH/VRH/NRH
 2600T Series Pressure Transmitters, Data Sheet, Model
 266MRT/GRT/RRT/ART
 2600T Series Pressure Transmitters, Data Sheet, Model 266DSH/PSH/VSH
 2600T Series Pressure Transmitters, Data Sheet, Model S26 seals for remote
 and direct mount

Document no. / Rev.

DS/266CRX/JRX-EN /
 11.2011
 DS/266CSX/JSX-EN /
 11.2011
 DS/266DHH-EN_0
 DS/266DLH-EN_0
 DS/266GST/AST-EN /
 10.2009
 DS/266HSH/NSH-EN_0
 DS/266MRH-EN_0
 DS/266MSH-EN_0
 DS/266MST/RST-EN / B
 05.2011
 DS/266XDH-EN_0
 DS/266XDT-EN /
 02.2010
 DS/266XRH-EN_0
 DS/266XRT-EN /
 02.2010
 DS/266XSH-EN_0
 DS/S26-EN_0

Environmental Test Reports:

ABB Test report, Performance test, Model 266 MST IIME-A09/2009 T
 ABB Test report, Performance test, Model 266 GST IIME-A10/2009 T
 ABB Test report, Performance test, Model 266 MST IIME-A11/2009 T
 ABB Test report, Performance test, Model 266 MST IIME-A12/2009 T
 ABB Test report, Performance test, Model 266 GST IIME-A14/2009 T
 ABB Test report, EMC test, Model 266 (dp-piezo 2,5bar, Cell 158) IIME-A16/2009 T
 ABB Test report, EMC test, Model 266 (dp-piezo hp 100bar, Cell 079) IIME-A17/2009 T
 ABB Test report, EMC test, Model 266 (p-cap 60mbar, Cell 112) IIME-A18/2009 T
 ABB Test report, EMC test, Model 266 (p-piezo 2,5bar, Cell 126) IIME-A19/2009 T
 ABB Test report, EMC test, Model 266 (dp-piezo 2,5bar, Cell 158) IIME-A35/2009 T
 ABB Test report, EMC test, Model 266 (dp-piezo hp 100bar, Cell 079) IIME-A36/2009 T
 ABB Test report, EMC test, Model 266 (p-cap 60mbar, Cell 113) IIME-A37/2009 T
 ABB Test report, EMC test, Model 266 (p-piezo 2,5bar, Cell 126) IIME-A38/2009 T
 ABB Test report, EMC test, Model 266 HSH/NSH/DSH/PSH/VSH 21685 / 2009-03-31
 ABB Test report, Vibration- and Shock test, Model 266 GST IIME-A20/2009 T
 ABB Test report, Vibration- and Shock test, Model 266 MST IIME-A21/2009 T
 ABB Test report, Vibration- and Shock test, Model 266 GST IIME-A24/2009 T
 ABB Test report, Vibration- and Shock test, Model 266 DSH IIME-A28/2009 T
 ABB Test report, Vibration- and Shock test, Model 266 HSH IIME-A30/2009 T
 ABB Test report, Vibration- and Shock test, Model 266 MST IIME-A31/2009 T
 ABB Test report, Climatic test, Model 266 MST IIME-A25/2009 T
 ABB Test report, Climatic test, Model 266 GST IIME-A26/2009 T
 ABB Test report, Climatic test, Model 266 MST IIME-A27/2009 T
 ABB Test report, Climatic test, Model 266 MST IIME-A34/2009 T
 ABB Test report, Salt spray test, Polyfine 3000 168.00
 ABB Test report, Salt spray test, Mile 2 barrel housing 193.00
 TÜV Rheinland Italia EMC Emission/Immunity test, Models 266 HSH/NSH, 28102436 001
 266 DSH/PSH/VSH
 TÜV Rheinland Italia EMC Emission/Immunity test, Models 264 B/D/H/N/P/V 28102437 001
 TÜV Italia Test report, IP67 enclosure test, Models 266 Housing STA_09_067 /
 2009-09-08

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Document type

G.S.D. Test report, EMC/Climatic tests, Models 266 MSH/DSH/VSH/GSH
G.S.D. Test report, EMC/Climatic tests, Models 266 GST/RST/MST
INTERTEK Test report, Salt mist test, Models 266 GSH/DSH/ASH
INTERTEK Test report, Salt mist test, Models 266 GST/RST/MST

Document no. / Rev.

11758 / 00
11791 / 00
2011013 / 0
2011019 / 0

Type approval assessment report issued at Milan on 2017-05-15
Type approval assessment report issued at Shanghai on 2017-05-31
Type approval assessment report issued at Minden on 2017-06-16
Type approval assessment report issued at Houston, TX on 2019-03-12

Tests carried out

Applicable tests according to class guideline DNVGL-CG-0339, November 2016.

Marking of product

The products to be marked with:

- manufacturer name
- model name
- serial number
- power supply ratings

Periodical assessment

The scope of the periodical assessment is to verify that the conditions stipulated for the type are complied with, and that no alterations are made to the product design or choice of systems, software versions, components and/or materials.

The main elements of the assessment are:

- Ensure that type approved documentation is available
- Inspection of factory samples, selected at random from the production line (where practicable)
- Review of production and inspection routines, including test records from product sample tests and control routines
- Ensuring that systems, software versions, components and/or materials used comply with type approved documents and/or referenced system, software, component and material specifications
- Review of possible changes in design of systems, software versions, components, materials and/or performance, and make sure that such changes do not affect the type approval given
- Ensuring traceability between manufacturer's product type marking and the type approval certificate

Periodical assessment is to be performed at least every second year and at renewal of this certificate.

END OF CERTIFICATE