



1. EU-TYPE EXAMINATION CERTIFICATE

2. Equipment or Protective systems intended for use in Potentially Explosive Atmospheres - Directive 2014/34/EU

3. EU-Type Examination Certificate No: FM09ATEX0024X

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

5. Name of Applicant: ABB SpA

6. Address of Applicant Via L. Vaccani 4,
Tremezzina (Co) Loc. Ossuccio, 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 Europe Ltd, notified body number 2809 in accordance with Article 17 of Directive 2014/34/EU of 26 February 2014, certifies that this equipment 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:

3030281EC dated 23rd 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 IEC 60079-0:2018, EN 60079-11:2012, EN 60529:1991+A1:2000+A2:2013

10. If the sign 'X' is placed after the certificate number, it indicates that the equipment is subject to specific conditions of use specified in the schedule to this certificate.

11. This EU-Type Examination certificate relates only to the design, examination and tests of the specified equipment or protective system in accordance to the directive 2014/34/EU. 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:



See Annex.

Certificate issued by:

Certification Manager, FM Approvals Europe Ltd.

Date 05 March 2024

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FM Approvals Europe Ltd. One Georges Quay Plaza, Dublin. Ireland. D02 E440
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F ATEX 020 (Dec/2020)



Page 1 of 15

SCHEDULE

EU-Type Examination Certificate No. FM09ATEX0024X



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

The Model 266 enclosure meets the requirements for IP66/67.

See Annex for specific model options and ratings.

14. Specific Conditions of Use:

See Annex.

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 EU-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 for CE Marking, FM Approvals Europe Ltd accepts no responsibility for the compliance of the equipment against all applicable Directives in all applications.

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

17. Schedule Drawings

A list of the significant parts of the technical documentation is annexed to this certificate and a copy has been kept by the Notified Body. The documents are maintained under project 3055168.

18. Certificate History

Details of the supplements to this certificate are described below:

Date	Description
24 July 2009	Original Issue.
March,-18-2010 to 19 October 2017	<u>Supplement 1 to 14:</u> See Certificate dated 19 th October 2017.

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Date	Description
19 October 2017	<u>Supplement 15:</u> Report Reference: RR209839 dated 17 th October 2017. Description of the Change: 1) Addition of NE21 Terminal, Option = YE
11 June 2018	<u>Supplement 16:</u> Report Reference: RR209965 dated 22 nd May 2018. Description of the Change: 1) Addition of alternate terminal block
23 January 2019	<u>Supplement 17:</u> Report Reference: RR216623 dated 18 th January 2019. Description of the Change: 1) Update to label drawing to include alternate manufacturing sites and include IP 66/67 marking on all label versions.
12 March 2019	<u>Supplement 18:</u> Report Reference: RR210107 dated 15 th February 2019. Description of the Change: 1. Update to inductive sensor board. 2. Transfer from FM Approvals Limited NB 1725, to FM Approvals Europe Limited NB 2809.
20 April 2021	<u>Supplement 19:</u> Report Reference: RR226196 dated 14 th April 2021. Description of the Change: 1. Addition of 2600T Pressure Transmitter Model 266NSH MID Transfer version. Option u = YC. 2. Correction of T-Class for HART/Entity (communications options t = 1, 7, or 8).
26 October 2021	<u>Supplement 20:</u> Report Reference: PR460021 dated 19 th October 2021. Description of the Change: Update to EN IEC 60079-0:2018 and Section 14 renamed as "Specific Conditions of Use".
15 November 2021	<u>Supplement 21:</u> Report Reference: RR229391 dated 12 th November 2021. Description of the Change: Addition of intrinsically safe parameters for the RTD and Digital Output for the Multivariable variant. Addition of Specific Condition of Use 5.
30 March 2022	<u>Supplement 22:</u> Report Reference: RR231844 dated 10 th March 2022. Description of the Change: Correction to drawing list.
30 May 2022	<u>Supplement 23:</u> Report Reference: RR232286 dated 19 th April 2022. Description of the Change: Documentation update.

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Date	Description
22 November 2022	<u>Supplement 24:</u> Report Reference: PR459914 dated 07 th November 2022. Description of the Change: Addition of Model 266DDS variant.
7 March 2023	<u>Supplement 25:</u> Report Reference: RR233966 dated 06 th March 2023. Description of the Change: Addition of UKCA certification information and update to DDS model code.
05 March 2024	<u>Supplement 26:</u> Report Reference: RR237788 dated 28 February 2024. Description of the Change(s): Modification to the 266DP sensor.

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EU-Type Examination Certificate No. FM09ATEX0024X



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ANNEX

266bcdefghimnoqrs7u 2600T Series Pressure Transmitter Model 266 (Integrated HMI option)

Markings:



II 1 G Ex ia IIC T6...T4 Ga
II 1/2 G Ex ia IIC T6...T4 Ga/Gb
II 1 D Ex ia IIIC T85°C...135°C Da
II 1/2 D Ex ia IIIC T85°C...135°C Da/Db:

IP66; IP67

Description of Equipment:

Electrical ratings;

Entity/HART Version

Ui = 30Vdc Ci = 5 nF Li = 10 uH

Temperature Class - Gas	Temperature Class - Dust	Minimum Ambient °C	Maximum Ambient °C	I _{max} mA	Power
T4	T135°C	-50°C	+60°C	100	0.75
T4	T135°C	-50°C	+60°C	160	1
T5	T100°C	-50°C	+56°C	100	1.75
T6	T85°C	-50°C	+44°C	50	0.4

b = measure type and construction: D, H, P, or N

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

d = performance: Single character not relevant to explosion safety.

e = upper range limits: Single character not relevant to explosion safety.

f = static pressure range: Single character not relevant to explosion safety.

g = transducer diaphragm material and fill fluid; Single character not relevant to explosion safety.

h = process flanges material & connection; Single character not relevant to explosion safety.

i = gasket: Single character not relevant to explosion safety.

m (only for 266DLH and 266DHH) = A, B, D, E, M, N, or L

n (only for 266DLH and 266DHH) = A, D, G, or L

o (only for 266DLH and 266DHH) = L, A, S, Q, B, H, P, F, K, C, 4, M, D, T, or 5

q (only for 266DLH) = 1, 2, 3, 4, 5, 6, 7, 8, M, N, Q, S, T, U, V, or Z

r = 1, 2, 3, 4, 8, 9, N, R, or S

s = electronic housing: A, B, C, D, J, S, or T

u = Options: E1, E7, EN, or EW and blank or A1, B[†], C[†], D[†], F[†], H[†], i[†], LS, M[†], N[†], P[†], R1, S2, T[†], V1, V2, V3, V4, V5, V6, V7, V8, V9, VA, VB, or VC

** Note 1: if on option "c" is D or R denotes remote seal elements.

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+ Note 2: Any single letter or number.

Code of remote seal:

S26 for 2600T series

Specific Conditions of Use:

1. The User shall permanently mark the protection type chosen. Once the type of protection has been marked it shall not be changed.
2. The material of the partition wall (sensing diaphragm) shall not be subject to environmental conditions which might adversely affect it.
3. The model 266 main electronics enclosure option s = A or B contains aluminium and is considered to present a potential risk of ignition by impact or friction. Care must be taken into account during installation and use to prevent impact or friction.
4. For areas subject to explosive dust atmospheres the painted surface of the Model 266 may store electrostatic charge and become a source of ignition in applications with a low relative humidity <~30% relative humidity where the painted surface is relatively free of surface contamination such as dirt, dust, or oil. Guidance on protection against the risk of ignition due to electrostatic discharge can be found in IEC TS 60079-32-1. Cleaning of the painted surface shall only be done in accordance with the manufacturers instructions.
5. The ABB Instruction Manual for the Model 266 Pressure Transmitter details the permitted Temperature Classification as influenced by the input parameters and Ambient Temperature ratings.

266bcdefghimnoqrstu 2600T Series Pressure Transmitter Model 266.

Markings:



II 1 G Ex ia IIC T6...T4 Ga
II 1/2 G Ex ia IIC T6...T4 Ga/Gb
II 1 D Ex ia IIIC T85°C...135°C Da
II 1/2 D Ex ia IIIC T85°C...135°C Da/Db

FISCO (for communication option t = 2, 3)

Description of Equipment:

Electrical parameters - Control drawing DH3173

*HART/Entity

$U_i = 30 V_{dc}$ $C_i = 5 nF$ $L_i = 10 uH$

$U_i = 30 V_{dc}$ $C_i = 17 nF$ $L_i = 10 uH$ when option u = YE

Temperature Class - Gas	Temperature Class - Dust	Minimum Ambient °C	Maximum Ambient °C	I _{max} mA	Power W
T4	T135°C	-50°C	+85°C	100	0.75
T4	T135°C	-50°C	+70°C	160	1
T5	T100°C	-50°C	+40°C	100	1.75
T6	T85°C	-50°C	+40°C	50	0.4

*Profibus/Fieldbus

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For communication option t = 2

$U_i = 17.5V$ $I_i = 360\text{ mA}$ $P_i = 2.5\text{ W}$ $C_i = 5nF$ $L_i = 10\text{ uH}$

For communication option t = 3 (According to FF-816 Physical Layer Type 111)

$U_i = 24V$ $I_i = 250\text{ mA}$ $P_i = 1.2\text{ W}$ $C_i = 5nF$ $L_i = 20\text{ uH}$

Temperature Class - Gas	Temperature Class - Dust	Minimum Ambient Temperature	Maximum Ambient Temperature
T4	T135°C	-50°C	+85°C
T5	T100°C	-50°C	+40°C
T6	T85°C	-50°C	+40°C

*FISCO

For communication option t = 3

$U_i = 17.5V$ $I_i = 380\text{ mA}$ $P_i = 5.32\text{ W}$ $C_i = 5nF$ $L_i = 10\text{ uH}$

Temperature Class - Gas	Temperature Class - Dust	Minimum Ambient Temperature	Maximum Ambient Temperature
T4	T135°C	-50°C	+85°C
T5	T100°C	-50°C	+40°C
T6	T85°C	-50°C	+40°C

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: Single character not relevant to explosion safety.

e = upper range limits: Single character not relevant to explosion safety.

f = static pressure range: Single character not relevant to explosion safety.

g = transducer diaphragm material and fill fluid; Single character not relevant to explosion safety.

h = process flanges material & connection; Single character not relevant to explosion safety.

i = gasket: Single character not relevant to explosion safety.

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, T, or S.

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

t = communication: 1, 2, 3, 7 or 8.

u = Options: E1, E7, EN, or EW and Blank, or AA, AB, A1, A2, A3, A4, A6, A8, A9, B[†], C[†], D[†], F[†], H[†], I[†], L1, M[†], N[†], P[†], R1, S2, T[†], U[†], V1, V2, V3, V4, V5, VC, Y[†] or Z1.

** Note 1: If on option “c” is D or R denotes remote seal elements.

[†]Note 2; Any single letter or number.

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Code of remote seal :
S6 for 600TEN series
S26 for 2600T series

Specific Conditions of Use:

1. The User shall permanently mark the protection type chosen. Once the type of protection has been marked it shall not be changed.
2. The material of the partition wall (sensing diaphragm) shall not be subject to environmental conditions which might adversely affect it.
3. The model 266 main electronics enclosure option s = A or B contains aluminium and is considered to present a potential risk of ignition by impact or friction. Care must be taken into account during installation and use to prevent impact or friction.
4. For areas subject to explosive dust atmospheres the painted surface of the Model 266 may store electrostatic charge and become a source of ignition in applications with a low relative humidity <~30% relative humidity where the painted surface is relatively free of surface contamination such as dirt, dust, or oil. Guidance on protection against the risk of ignition due to electrostatic discharge can be found in IEC TS 60079-32-1. Cleaning of the painted surface shall only be done in accordance with the manufacturers instructions.
5. For the Model 266 Multivariable the HART and the Digital Output circuits shall be treated as separate intrinsically safe circuits and the wiring used shall be Type A or Type B as defined in EN 60079-25 (only for b = measure type and construction = C or J)
6. The ABB Instruction Manual for the Model 266 Pressure Transmitter details the permitted Temperature Classification as influenced by the input parameters and Ambient Temperature ratings.

266bcdefghimnoqrstu 2600T Series Pressure Transmitter Model 266. (L5 display option)

Markings:



II 1 G Ex ia IIC T6...T4 Ga
II 1/2 G Ex ia IIC T6...T4 Ga/Gb
II 1 D Ex ia IIIC T85°C...135°C Da
II 1/2 D Ex ia IIIC T85°C...135°C Da

FISCO (for communication option 2, 3)

Description of Equipment:

Electrical ratings;

Entity/HART Version (communications options t = 1 or 8)

$U_i = 30\text{Vdc}$ $C_i \leq 5\text{ nF}$ $L_i \leq 10\text{ }\mu\text{H}$

$U_i = 30\text{ Vdc}$ $C_i \leq 17\text{ nF}$ $L_i \leq 10\text{ }\mu\text{H}$ when option u = YE

Temperature Class - Gas	Temperature Class - Dust	Minimum ambient °C	Maximum ambient °C	I _{max} mA	Power W
T4	T135°C	-50°C	+60°C	100	0.75
T4	T135°C	-50°C	+60°C	160	1

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EU-Type Examination Certificate No. FM09ATEX0024X



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T5	T100°C	-50°C	+56°C	100	1.75
T6	T85°C	-50°C	+44°C	50	0.4

Profibus version

For communications option t = 2

Ui = 17.5 Vdc li = 360mA Pi = 2.52W Ci ≤ 5 nF Li ≤ 10 μH

Temperature Class - Gas	Temperature Class - Dust	minimum ambient °C	maximum ambient °C
T4	T135°C	-50°C	+60°C
T5	T100°C	-50°C	+56°C
T6	T85°C	-50°C	+44°C

Fieldbus Version

For communication option t = 3 (According to FF-816 Physical Layer Type 111)

Ui = 24 Vdc li = 250 mA Pi = 1.2 W Ci ≤ 5 nF Li ≤ 10 μH

Temperature Class - Gas	Temperature Class - Dust	minimum ambient °C	maximum ambient °C
T4	T135°C	-50°C	+60°C
T5	T100°C	-50°C	+56°C
T6	T85°C	-50°C	+44°C

FISCO Version

For communication option t = 3

Ui = 17.5 Vdc li = 380mA Pi = 5.32 W Ci ≤ 5 nF Li ≤ 10 μH

Temperature Class - Gas	Temperature Class - Dust	minimum ambient °C	maximum ambient °C
T4	T135°C	-50°C	+60°C
T5	T100°C	-50°C	+56°C
T6	T85°C	-50°C	+44°C

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

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

d = performance: Single character not relevant to explosion safety.

e = upper range limits: Single character not relevant to explosion safety.

f = static pressure range: Single character not relevant to explosion safety.

g = transducer diaphragm material and fill fluid; Single character not relevant to explosion safety.

h = process flanges material & connection; Single character not relevant to explosion safety.

i = gasket: Single character not relevant to explosion safety.

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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, T, or S.

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

t = communication: 1, 2, 3 or 8

u = Options: E1, E7, EN, or EW and blank, or AA, AB, A1, A2, A3, A4, A6, A8, A9, B[†], C[†], D[†], F[†], H[†], I[†], L5, M[†], N[†], P[†], R1, S2, T[†], U[†], V1, V2, V3, V4, V5, V6, V7, V8, V9, VA, VB, VC, W[†], Y[†] or Z1.

** Note 1: If on option “c” is D or R denotes remote seal elements.

† Note 2; Any single letter or number.

Model code option variables “d” through “i” do not affect product safety.

Code of remote seal :

S6 for 600TEN series

S26 for 2600T series

Specific Conditions of Use:

1. The User shall permanently mark the protection type chosen. Once the type of protection has been marked it shall not be changed.
2. The material of the partition wall (sensing diaphragm) shall not be subject to environmental conditions which might adversely affect it.
3. The model 266 main electronics enclosure option s = A or B contains aluminium and is considered to present a potential risk of ignition by impact or friction. Care must be taken into account during installation and use to prevent impact or friction.
4. For areas subject to explosive dust atmospheres the painted surface of the Model 266 may store electrostatic charge and become a source of ignition in applications with a low relative humidity <~30% relative humidity where the painted surface is relatively free of surface contamination such as dirt, dust, or oil. Guidance on protection against the risk of ignition due to electrostatic discharge can be found in IEC TS 60079-32-1. Cleaning of the painted surface shall only be done in accordance with the manufacturers instructions.
5. For the Model 266 Multivariable the HART and the Digital Output circuits shall be treated as separate intrinsically safe circuits and the wiring used shall be Type A or Type B as defined in EN 60079-25 (only for b = measure type and construction =C or J)
6. The ABB Instruction Manual for the Model 266 Pressure Transmitter details the permitted Temperature Classification as influenced by the input parameters and Ambient Temperature ratings.

266bcdefghirstu 2600T Series Pressure Transmitter model 266 (multivariable NE21 Terminal option).

Markings:



II 1 G Ex ia IIC T6...T4 Ga

II 1/2 G Ex ia IIC T6...T4 Ga/Gb

II 1 D Ex ia IIIC T85°C...135°C Da

II 1/2 D Ex ia IIIC T85°C...135°C Da/Db

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Description of Equipment:

Electrical parameters - Control Drawing DH3272

HART/Entity (communications options t = 1 or 8)

U_i = 30 Vdc C_i ≤ 21 nF L_i ≤ 10 μH

Temperature Class	Temperature Class - Dust	Minimum ambient °C	Maximum ambient °C	I _i mA	P _i W
T4	T135°C	-50°C	+60°C	100	0.75
T4	T135°C	-50°C	+60°C	160	1
T5	T100°C	-50°C	+56°C	100	1.75
T6	T85°C	-50°C	+44°C	50	0.4

RTD connections

U_o = 5.9 V I_o = 24 mA P_o = 0.035 W C_o = 11.3 μF L_o = 30 mH

Digital Output

U_o = 0 I_o = 0 C_o = 650 nF L_o = 5.5 mH
U_i = 30 Vdc I_i = 120 mA C_i = 3 nF L_i = 0

Temperature Class - Gas	Temperature Class - Dust	Minimum ambient °C	Maximum ambient °C	Power W
T4	T135°C	-50°C	+60°C	1.0
T5	T100°C	-50°C	+56°C	1.3
T6	T85°C	-50°C	+44°C	0.4

b = measure type and construction: C, or J.

c = application: R**, or S.

r = bolts and gasket: 3, 4, 5, 6, 7, R, or T

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

t = communication: 1, or 8

u = Options: E1, EN or EW and blank, or A1, B[†], C[†], D[†], F[†], H[†], I[†], L1, L5, M[†], N[†], P[†], S2, T[†], U[†], U8, V1, V2, V3, V4, V5, V6, V7, V8, V9, YE or YR.

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

† Note 2: Any single letter or number.

Model code option variables "d" through "i" do not affect product safety.

Code of remote seal:

S6 for 600TEN series

S26 for 2600T series

Specific Conditions of Use:

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1. The User shall permanently mark the protection type chosen. Once the type of protection has been marked it shall not be changed.
2. The material of the partition wall (sensing diaphragm) shall not be subject to environmental conditions which might adversely affect it.
3. The model 266 main electronics enclosure option s = A or B contains aluminium and is considered to present a potential risk of ignition by impact or friction. Care must be taken into account during installation and use to prevent impact or friction.
4. For areas subject to explosive dust atmospheres the painted surface of the Model 266 may store electrostatic charge and become a source of ignition in applications with a low relative humidity <~30% relative humidity where the painted surface is relatively free of surface contamination such as dirt, dust, or oil. Guidance on protection against the risk of ignition due to electrostatic discharge can be found in IEC TS 60079-32-1. Cleaning of the painted surface shall only be done in accordance with the manufacturers instructions.
5. For the Model 266 Multivariable the HART and the Digital Output circuits shall be treated as separate intrinsically safe circuits and the wiring used shall be Type A or Type B as defined in EN 60079-25.
6. The ABB Instruction Manual for the Model 266 Pressure Transmitter details the permitted Temperature Classification as influenced by the input parameters and Ambient Temperature ratings.

266bcdefghrstu 2600T Series Pressure Transmitter Model 266 (multivariable).

Markings:



II 1 G Ex ia IIC T6...T4 Ga
II 1/2 G Ex ia IIC T6...T4 Ga/Gb
II 1 D Ex ia IIIC T85°C...135°C Da
II 1/2 D Ex ia IIIC T85°C...135°C Da/Db

Description of Equipment:

Electrical parameters - Control drawing DH3272

*HART/Entity

Ui = 30 Vdc Ci = 13 nF Li = 10 uH

Temperature Class - Gas	Temperature Class - Dust	Minimum Ambient °C	Maximum Ambient °C	I _{max} mA	Power W
T4	T135°C	-50°C	+60°C	100	0.75
T4	T135°C	-50°C	+60°C	160	1.0
T5	T100°C	-50°C	+56°C	100	1.75
T6	T85°C	-50°C	+44°C	50	0.4

RTD connections

U_o = 5.9 V I_o = 24 mA P_o = 0.035 W C_o = 11.3 µF L_o = 30 mH

Digital Output

U_o = 0 I_o = 0 C_o = 650 nF L_o = 5.5 mH

U_i = 30 Vdc I_i = 120 mA C_i = 3 nF L_i = 0

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Temperature Class - Gas	Temperature Class - Dust	Minimum ambient °C	Maximum ambient °C	Power W
T4	T135°C	-50°C	+60°C	1.0
T5	T100°C	-50°C	+56°C	1.3
T6	T85°C	-50°C	+44°C	0.4

b = measure type and construction: C, or J.

c = application: R**, or S.

d = performance: Single character not relevant to explosion safety.

e = upper range limits: Single character not relevant to explosion safety.

f = static pressure range: Single character not relevant to explosion safety.

g = transducer diaphragm material and fill fluid; Single character not relevant to explosion safety.

h = process flanges material & connection; Single character not relevant to explosion safety.

i = gasket: Single character not relevant to explosion safety.

r = bolts and gasket: 3, 4, 5, 6, 7, R, or T

s = electronic housing: A, B, C, D, J, S, or T

t = communication: 1 or 8

u = Options: Blank, or A1, B[†], C[†], D[†], E1, E7, EN, EW, F[†], H[†], I[†], L1, L5, M[†], N[†], P[†], R1, S2, T[†], U[†], V1, V2, V3, V4, V5, V6, V7, V8, V9, Y[†] (excluding option YE) or Z1.

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

[†]Note 2; Any single letter or number.

Code of remote seal :

S6 for 600TEN series

S26 for 2600T series

Specific Conditions of Use:

1. The User shall permanently mark the protection type chosen. Once the type of protection has been marked it shall not be changed.
2. The material of the partition wall (sensing diaphragm) shall not be subject to environmental conditions which might adversely affect it.
3. The model 266 main electronics enclosure option s = A or B contains aluminium and is considered to present a potential risk of ignition by impact or friction. Care must be taken into account during installation and use to prevent impact or friction.
4. For areas subject to explosive dust atmospheres the painted surface of the Model 266 may store electrostatic charge and become a source of ignition in applications with a low relative humidity <~30% relative humidity where the painted surface is relatively free of surface contamination such as dirt, dust, or oil. Guidance on protection against the risk of ignition due to electrostatic discharge can be found in IEC TS 60079-32-1. Cleaning of the painted surface shall only be done in accordance with the manufacturers instructions.
5. For the Model 266 Multivariable the HART and the Digital Output circuits shall be treated as separate intrinsically safe circuits and the wiring used shall be Type A or Type B as defined in EN 60079-25.
6. The ABB Instruction Manual for the Model 266 Pressure Transmitter details the permitted Temperature Classification as influenced by the input parameters and Ambient Temperature ratings.

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SCHEDULE

EU-Type Examination Certificate No. FM09ATEX0024X



Member of the FM Global Group

266bcdeghi*stu 2600T Pressure transmitter, Model 266DDS.

Markings:



II 1 G Ex ia IIC T6...T4 Ga
II 1/2 G Ex ia IIC T6...T4 Ga/Gb
II 1 D Ex ia IIIC T85°C...135°C Da
II 1/2 D Ex ia IIIC T85°C...135°C Da/Db

Description of Equipment:

Electrical ratings;

Entity/HART Version

U_i = 30Vdc C_i ≤ 5 nF L_i ≤ 10 μH

Temperature Class	Temperature Class - Dust	Minimum ambient °C	Maximum ambient °C	I _i mA	P _i W
T4	T135°C	-50°C	+85°C	100	0.75
T4	T135°C	-50°C	+70°C	160	1
T5	T100°C	-50°C	+40°C	100	1.75
T6	T85°C	-50°C	+40°C	50	0.4

s = electronic housing: S, or T.

t = communication: D or S.

u = Options: E1, E7. EW or EN and blank, or A1, A2, A3, AA, AB, AC, B†, C†, D†, H†, I†, L1, M†, N†, P†, S2, T†, V1, V2, V3, V4, V5, V6, V7, V8, V9, VA, VB, VC, Y†, or Z1.

† Note 2: Any single letter or number.

S26 for 2600T series

Model code option variables “e” through “i” do not affect product safety.

Specific Conditions of Use:

1. The User shall permanently mark the protection type chosen. Once the type of protection has been marked it shall not be changed.
2. The material of the partition wall (sensing diaphragm) shall not be subject to environmental conditions which might adversely affect it.
3. The model 266 main electronics enclosure option s = A or B contains aluminium and is considered to present a potential risk of ignition by impact or friction. Care must be taken into account during installation and use to prevent impact or friction.
4. For areas subject to explosive dust atmospheres the painted surface of the Model 266 may store electrostatic charge and become a source of ignition in applications with a low relative humidity <~30% relative humidity where the painted surface is relatively free of surface contamination such as dirt, dust, or oil. Guidance on protection against the risk of ignition due to electrostatic discharge can be found in IEC TS 60079-32-1. Cleaning of the painted surface shall only be done in accordance with the manufacturers instructions.
5. The ABB Instruction Manual for the Model 266 Pressure Transmitter details the permitted Temperature Classification as influenced by the input parameters and Ambient Temperature ratings.

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SCHEDULE

EU-Type Examination Certificate No. FM09ATEX0024X



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266NSHefghirs1u 2600T Pressure transmitter, Model 266 MID option YC – Dual Seal

Markings:



II 1 G Ex ia IIA T6...T4 Ga
II 1/2 G Ex ia IIA T6...T4 Ga/Gb

Description of Equipment:

Electrical ratings;

Entity/HART Version

Ui = 30Vdc Ci ≤ 11 nF Li ≤ 64 mH

T Class	Minimum ambient °C	Maximum ambient °C	I _{max} mA	Power W
T4	-50°C	+85°C	50	0.75
T4	-50°C	+70°C	50	1
T5	-50°C	+40°C	50	0.75
T6	-50°C	+40°C	50	0.4

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

u = Options: YC and E1, E7 or EN, and blank, or A1, B[†], C[†], H[†], I[†], L1, M[†], N[†], P[†], S2, T[†], V[†] or Z1.

[†] Note: Any single letter or number.

Model code option variables “e” through “i” do not affect product safety.

Specific Conditions of Use:

1. The User shall permanently mark the protection type chosen. Once the type of protection has been marked it shall not be changed.
2. The material of the partition wall (sensing diaphragm) shall not be subject to environmental conditions which might adversely affect it.
3. The model 266 main electronics enclosure option s = A or B contains aluminium and is considered to present a potential risk of ignition by impact or friction. Care must be taken into account during installation and use to prevent impact or friction.
4. For areas subject to explosive dust atmospheres the painted surface of the Model 266 may store electrostatic charge and become a source of ignition in applications with a low relative humidity <~30% relative humidity where the painted surface is relatively free of surface contamination such as dirt, dust, or oil. Guidance on protection against the risk of ignition due to electrostatic discharge can be found in IEC TS 60079-32-1. Cleaning of the painted surface shall only be done in accordance with the manufacturers instructions.
5. The ABB Instruction Manual for the Model 266 Pressure Transmitter details the permitted Temperature Classification as influenced by the input parameters and Ambient Temperature ratings.

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Blueprint Report

ABB SpA (100002443)

Class No 3610

Original Project I.D. 3055168

Certificate I.D. FM09ATEX0024X

Drawing No.	Revision Level	Drawing Title	Last Report
0489701_F_2	7	Bare Board (PCB) Front End dp-piezo	3055168
2-6228	3	Socket strip with strands	RR237788
2-9186 X1	4	primary transducer P-piezo	3055168
2-9187 X1	2	primary transducer DP-piezo	RR237788
2-9187	2	Primary transducer DP-PIEZO	RR237788
2-9188 X1	1	primary transducer DP-piezo- HP	3055168
266 PTC	August 2018	266 Product technical code	RR226196
3KQZ207150U0110	0	terminal block for enanched EMC NE21 (BOM)	RR209839
3KXF065200U0111	3	terminal block for enanched EMC NE21 (schematic)	RR209839
3KXF065200U0123	02	terminal block for enanched EMC NE21 (PCB)	RR209839
3KXP000001U0121	0	Front End for Wireless Hart Round Board - BOM	3055168
3KXP000001U0122	0	Front end wireless schematic	3055168
3KXP000001U0123	0	Front end Wireless PCB	3055168
3KXP000001U0221	0	front end wireless assembly	3055168
3KXP001001U0021	5	Connection board Hart "layout"	3055168
3KXP001001U0030	d	Connection board Hart "BOM"reed	3055168
3KXP001001U0031	2	Connection board reed	3055168
3KXP001001U0040	d	Connec. board Hart "BOM" push	3055168
3KXP001001U0041	2	Connection board push	3055168
3KXP001001U0060	a	Assy Con.board Hart "BOM" reed s	3055168
3KXP001001U0090	a	Assy Con.board Hart "BOM" push s	3055168
3KXP001001U0091	2011-11-17	Ass conn board	3055168
3KXP001168U0022	0	DDS Terminal Block (Standards and Surge) - Board A	PR459914
3KXP001168U0023	0	DDS Terminal Block A	PR459914
3KXP001168U0121	0	DDS Terminal Block Board A BOM (standard)	PR459914
3KXP001168U0221	0	DDS Terminal Block Board A BOM (Surge)	PR459914
3KXP001169U0022	0	DDS Terminal Block (Standards and Surge) - Board B	PR459914
3KXP001169U0023	0	DDS Terminal Block B	PR459914
3KXP001169U0121	0	DDS Terminal Block Board B BOM (standard)	PR459914
3KXP001169U0221	0	DDS Terminal Block Board B BOM (Surge)	PR459914
3KXP001172U0121	0	DDS Slave Board BOM	PR459914
3KXP001172U0122	0	DDS Slave Communication Board	PR459914
3KXP001172U0123	0	MILE2 Series: Slave Board for DDS	PR459914
3KXP001172U0201	0	266DDS secondary Communication Board	PR459914
3KXP001174U0121	0	DDS Master Board BOM	PR459914
3KXP001174U0122	0	DDS Master Communication Board	PR459914
3KXP001174U0123	0	MILE2 Series: Master Board for DDS	PR459914
3KXP001175U0121	0	Pressure Round Board - DDS version	PR459914
3KXP001178U0009	08-May-2020	266 DDS Pressure Transmitter Slave	PR459914
3KXP001180U0009	08-May-2020	266 DDS Pressure Transmitter Master	PR459914
480701-2-D	5	front end dp-piezoresistive type "PCB"	3055168
480706-2-C	4	front end dp-piezoresistive HP type "PCB"	3055168
489705-2-C	4	front end p-piezoresistive type "PCB"	3055168
9280301 2	5	front end dp-piezoresistive type "circuit diagram"	3055168
9280301 DP	E	front end dp-piezoresistive type "part list"	RR231844
9280305 2	4	front end p-piezoresistive type "circuit diagram"	3055168
9280305 3	C	front end p-piezoresistive type "part list"	3055168
9280306 2	4	front end dp-piezoresistive HP type "circuit diagram"	3055168
9280306 DP	C	front end dp-piezoresistive HP type "part list"	3055168
AU 3062	7	front end inductive type "part list"	RR209839
AU 3063	4	terminal block hart standard version	RR209965
AU 3066	0	mile2 terminal block FF and PA standard version "part list"	3055168
AU 3067	0	mile2 terminal block hart standard version + surge "part list"	3055168
AU 3068	0	mile2 terminal block FF and PA standard version + surge "part list"	3055168
AU 3069	2	mile2 terminal block hart multivariable "part list"	3055168
AU 3070	0	mile2 terminal block FF multivariable "part list"	3055168
AU 3071	2	mile2 UFTE pressure type FF "part list"	3055168
AU 3072	3	mile2 communication board pressure type FF compensated "part list"	3055168
AU 3073	5	Ext. UHTE: Pressure Round Board - BOM	RR226196
AU 3074	10	mile2 communication board pressure type Hart compensated "part list"	RR226196
AU 3077	2	Parts list 266MV : Second Front End	3055168
AU 3080	0	mile2 terminal block hart + surge multivariable "part list"	3055168
AU 3081	0	mile2 terminal block FF + surge multivariable "part list"	3055168
AU 3087	2	mile2 communication board pressure type FF uncompensated "part list"	3055168
AU 3088	7	Ext. UHTE: Pressure Round Board - Not Compensated - BOM	RR226196
AU 3097	0	mile2 communication board pressure type PA uncompensated "part list"	3055168

AU 3098	6	Ext. UFTE : PROFIBUS - Pressure type	RR226196
AU 3110	1	multivariable communication board hart (BOM) not compensated	RR209839
AU 3111	5	Multivariable Communication Board - Pressure type-	RR237788
AU 3128	1	Ext. UHTE: Pressure Round board ---MV Version---	RR237788
AU 3159	5	Sensor round board for Mid Tier Pressure	RR226196
AU 3166	2	Terminal block for Extended EMC - BOM	RR226196
AU 3167	2	Indicator for Mid Tier	RR226196
AU 3187	3	Sensor round board for Mid Tier Pressure 700 Bar	RR226196
AU 3194	0	sensor board for MidTier pressure inductive 2nd generation BOM	RR210107
AU 3195	0	Terminal block: HART MID version	RR226196
DH 0013	2	2600T Series primary transducer differential Tx inductive type	3055168
DH 0014	2	2600T Series primary transducer gauge Tx inductive type	3055168
DH 3084	2	Indicator HMI "schematic"	3055168
DH 3091	2	Indicator HMI "layout"	3055168
DH 3114	1	mile2 communication board pressure type Hart "circuit diagram"	3055168
DH 3115	1	front end inductive type "circuit diagram"	3055168
DH 3116	4	front end inductive type "PCB"	3055168
DH 3119	1	mile2 terminal block hart multivariable "circuit diagram"	3055168
DH 3125	2	SENSOR BOARD FOR MID TIER PRESSURE	RR226196
DH 3130	5	266 assembly drawing	RR232286
DH 3131	0	mile2 terminal block hart + surge multivariable "circuit diagram"	3055168
DH 3132	1	mile2 terminal block hart + surge multivariable "PCB"	3055168
DH 3133	0	mile2 terminal block FF + surge multivariable "circuit diagram"	3055168
DH 3134	1	mile2 terminal block FF + surge multivariable "PCB"	3055168
DH 3139	3	mile2 terminal block hart multivariable "PCB"	3055168
DH 3142	1	mile2 terminal block hart standard version "circuit diagram"	RR231844
DH 3143	3	mile2 terminal block hart standard version "PCB"	RR209965
DH 3144	0	mile2 terminal block hart standard version + surge "circuit diagram"	3055168
DH 3145	1	mile2 terminal block hart standard version + surge "PCB"	3055168
DH 3146	0	mile2 terminal block FF and PA standard version + surge "circuit diagram"	3055168
DH 3147	2	mile2 terminal block FF and PA standard version + surge "PCB"	3055168
DH 3148	1	mile2 communication board pressure type FF and PA "circuit diagram"	3055168
DH 3149	2	mile2 communication board pressure type FF and PA "PCB"	3055168
DH 3151	2	mile2 communication board pressure type Hart "PCB"	3055168
DH 3168	15	2600T series 266 safety plates	RR237788
DH 3169	4	2600T series pressure transmitter P-DIN	RR232286
DH 3170	4	2600T series pressure transmitter DP-DIN	RR232286
DH 3173	5	2600 T Series Control Drawing	RR209839
DH 3183	22-Jun-10	Dual Seal Safety Plate	3055168
DH 3190	0	2600T SERIES PRIMARY TRANSDUCER , GAUGE Tx STRAIN GAUGE type	3055168
DH 3191	0	2600T SERIES 266 Interface Board 1000 Bar "Circuit Diagram"	3055168
DH 3192	0	2600T SERIES 266 Interface Board 1000 Bar PCB	3055168
DH 3193	3	second front end (Schematic)	RR209839
DH 3194	3	second front end (PCB)	RR209839
DH 3198	04/07/11	2600T Series Primary Transducer Gauge Tx Inductive Type (Front end covered by potting) (Standard Flameproof Device)	3055168
DH 3199	04/07/11	2600T Series Primary Transducer Gauge Tx Inductive Type (Front end covered by potting) (Flameproof Device for automatic insertion)	3055168
DH 3200	04/07/11	2600T Series Primary Transducer Gauge Tx Inductive Type (Front end covered by plastic protection) (Standard Flameproof Device)	3055168
DH 3201	04/07/11	2600T Series Primary Transducer Gauge Tx Inductive Type (Front end covered by plastic protection) (Flameproof Device for automatic insertion)	3055168
DH 3212	1	MILE 2 Series: Terminal block for extended EMC	3055168
DH 3213	1	Terminal block for extended EMC	3055168
DH 3214	3	Sensor board "layout"	3055168
DH 3215	1	Sensor board "circuit diagram"	3055168
DH 3223	12/03/12	2600T Series Primary Transducer Gauge Tx Inductive Type EDM Solution 2	3055168
DH 3245	0	transducer gauge 700 bar with glass insulator	3055168
DH 3246	0	transducer gauge 700 bar without glass insulator	3055168
DH 3261	0	MILE 2 Series Terminal Block Hart - MID version	RR226196
DH 3262	0	Terminal Block Hart - MID version	RR226196
DH 3268	0	sensor board for MidTier pressure inductive 2nd generation Circuit diagram	RR210107
DH 3269	0	sensor board for MidTier pressure inductive 2nd generation PCB Layout	RR210107
DH 3270	0	266 multivariable enclosure for NE 21 terminal block	RR209839
DH 3272	Original	266 Multivariable HART Control Drawing	RR229391
DH 3276	22-Jan-2021	2600 T Series Control Drawing MID YC option	RR226196
DH 3279	22-Jan-21	2600T Series 266 Safety Plates for YC option	RR226196
DH 3279	01	2600T Series 266 Safety Plates for YC option	RR233966
DH 3281	Original	2600T Series 266 Multivariable safety plates	RR229391
DH 3288	0	266 DDS HART Control Drawing	PR459914
DH 3289	1	2600T Series 266DDS Safety Plates	PR459914

DH3168	15	2600T Series 266 Safety Plates	RR233966
DH3263	3	2600T Series 266 Modbus Pressure Safety Plates	RR233966
DH3281	1	2600T Series 266 Multivariable Safety Plates	RR233966
OI 266 MV	11.2021	OPerating Instructions 266 MV	RR229391
OI_266DDSHART-EN-B-09_2022	09-2022	Operating Instructions DDS	PR459914
OI_266HART-EN-P	P	266 HART Pressure transmitters	RR237788
OI_266_HART_ADD MID-EN	A	OPERATING INSTRUCTION ADDENDUM	RR226196
SOI-266-XC-I03_2014	J	2600T Instruction / Installation Manual	3055168