DNV·GL

Certificate No:
TAA00002J9

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Pressure Transmitter

with type designation(s)
Smart line ST800 and ST700 pressure transmitters

Issued to
Industrial Measurement & Control Honeywell International Inc.
Fort Washington, PA, USA

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	**A**
EMC	**B**
Enclosure	**C**

Issued at **Høvik** on **2019-11-22**
This Certificate is valid until **2024-11-21**.
DNV GL local station: **New York**

for **DNV GL**

Approval Engineer: **Nils Jarem**

Trond Sjåvåg
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.

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Product description

ST800 and ST700 Pressure Transmitter Series

Absolute Pressure Transmitter

STA800	ST700		
STA822		STA722	0 to 780 mm Hga
STA840		STA740	0 to780 mm Hga
STA82L		STA72L	0 to 500 psia
STA84L		STA74L	0 to 500 psia
STA87L		STA77L	0 to 3000 psia

Differential Pressure Transmitter

STD800	STD700		
STD810		-	0 to 10 in H2O
STD820		STD720	0 to 400 in H2O
STD830		STD730	0 to 100 psi
STD870		STD770	0 to 3000 psi

Gauge Pressure Transmitter

STG800	STG700		
STG830		STG730	0 to 50 psig
STG840		STG740	0 to 500 psig
STG870		STG770	0 to 3000 psig
STG83L		STG73L	0 to 50 psig
STG84L		STG74L	0 to 500 psig
STG87L		STG77L	0 to 3000 psig
STG88L		STG78L	0 to 6000 psig
STG89L		STG79L	0 to 10000 psig

Remote Diaphragm Seal Pressure Transmitter

STR800	STR700		
STR82D		-	0 to 400 in H2O
STR83D		STR73D	0 to 100 psig
STR84A		-	0 to 500 psia
STR84G		STR74G	0 to 500 psig
STR87G		-	0 to 3000 psig

Flange Mount Pressure Transmitter

STF800	STF700		
STF828		STF724	0 to 400 in H2O
STF832		STF732	0 to 100 psig
STF82F		STF72F	0 to 400 in H2O
STF83F		STF73F	0 to 100 psig

Specified Accuracy & Stability

ST800
Accuracy of up to 0.025%
Stability of 0.01% per year

ST700
Accuracy of up to 0.05%
Stability of 0.02% per year for five years

Communication Protocol: HART versions 5, 6, and 7, Honeywell's Digitally Enhanced (DE), Foundation Fieldbus (FF) and Profibus (PA).

Place of manufacure

Honeywell System Sensor de Mexico,
S. de R.L. de C.V., Av. Miguel de la Madrid #8102,
Col. Lote Bravo, C.P.32695 Cd. Juárez,
Mexico

Honeywell Automation India Ltd.
Plot No. 3, Gat No. 181,
Village Fulgaon, Tal-Haveli,
Pune: 412216, Maharashtra,
India

Honeywell (Tianjin) Limited
Building 20 of JinBin Development
No. 156, Nan Hai Road, TEDA
Tianjin, 300457,
P.R. China

Approval conditions

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.

Application/Limitation

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.

The following is based on information received from the manufacturer, but not verified by DNV GL.

CSA (Canada):

Canada Divisions

Intrinsically Safe: Class I, Division 1 Groups A, B, C, and D;
Class II, Division 1, Groups E, F and G; Class III, Division 1; T4
Non-Incendive: Class I, Division 2, Groups A, B, C and D; T4
Explosion-Proof: Class I, Division 1, Groups A, B, C, D; T4
Dust Ignition-Proof: Class II, Division 1, Groups E, F, G; T4

Canada Zones

Intrinsically Safe: Class I Zone 0 Ex ia IIC T4; Class I Zone 2 Ex ic IIC T4
Non-Sparking: Class I Zone 2 Ex nA IIC T4
Explosion-Proof: Class I Zone 1 Ex d IIC T4
Dust Ignition-Proof: Zone 21 Ex tb IIIC T=95°C

FM (US):

US Divisions

Intrinsically Safe: Class I, Division 1 Groups A, B, C, and D;
Class II, Division 1, Groups E, F and G; Class III, Division 1; T4
Non-Incendive: Class I, Division 2, Groups A, B, C and D; T4
Explosion-Proof: Class I, Division 1, Groups A, B, C, D; T4
Dust Ignition-Proof: Class II, Division 1, Groups E, F, G; T4

US Zones

Intrinsically Safe: Class I Zone 0 AEx ia IIC T4 Ga
Non-Sparking: Class I Zone 2 AEx nA IIC T4 Gc
Explosion-Proof: Class I Zone 1 AEx d IIC T4 Gb
Dust Ignition-Proof: Zone 21 AEx tb IIIC T=95°C Db

ATEX:



II 1 G Ex ia IIC T4 Ga
II 2 G Ex d IIC T4 Gb
II 2 D Ex tb IIIC T=95°C
II 3 G Ex nA IIC T4 Gc

IECEx:

Ex ia IIC T4 Ga
Ex d IIC T4 Gb
Ex tb IIIC T=95°C Db
Ex nA IIC T4 Gc

IEC 61508: 2010

SIL2 for single transmitters
SIL3 for multiple transmitters

Type Approval documentation

Tests carried out

Applicable tests according to Standard for Certification No. 2.4, April 2006.

Marking of product

The products to be marked with model name, manufacturer name and serial number

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 after 2 years and after 3.5 years. A renewal assessment will be performed at renewal of the certificate.

END OF CERTIFICATE