DNV·GL

Certificate No:
TAA00000JY

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Pressure Transmitter

with type designation(s)
UNIK 5600/5700 Pressure Sensor

Issued to
GE Sensing & Inspection (Changzhou) Co., Ltd.
Changzhou, China

is found to comply with
DNV GL rules for classification – Ships and offshore units

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 (IP 56)**
	D (IP 68)

This Certificate is valid until **2021-12-31**.

Issued at **Høvik** on **2016-08-01**

for **DNV GL**

DNV GL local station: **Nanjing**

Approval Engineer: **Nils Jarem**

Odd Magne Nesvåg
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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Job Id:
Certificate No: **TAA00000JY**

Product description

UNIK 5600/5700 Pressure Sensor:
PTX 5#*2 - …

"#": Materials option:
- 6: Stainless Steel 316L
- 7: Titanium

"*": Electrical connector:

7: DIN 43650 FORM A	(IP 56: Location class: C)
N: KYNAR Cable (Depth)	(IP 68: Location class: D)
P: Demountable KYNAR cable (Depth)	(IP 68: Location class: D)
U: TPE-U cable (Depth)	(IP 68: Location class: D)
V: Demountable TPE-U cable (Depth)	(IP 68: Location class: D)

"…": reserved for other information

Nominal Voltage: 24V DC, range : 18V to 31.2V
Output: 4-20 mA

Place of manufacture

GE Sensing & Inspection (Changzhou) Co., Ltd
NO.8 Xihu Road, Jintong International Industrial Park Wujin Hi-tech Changzhou,China

Druck Limited
Fir Tree Lane, Groby, Leicester, LE6 0FH, United Kingdom

Application/Limitation

The Type Approval covers hardware listed under Product description. When the hardware is used in applications to be classed by DNV, 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 Rules for 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.

Type Approval documentation

Tests carried out

Applicable tests according to Standard for Certification No. 2.4, April 2006.
DIN Backend connector assembly needle flame tested according to IEC 60695-11-5: 2004.
DIN Backend connector assembly IP tested to IP56 according to IEC 60529.
Kynar Cable (Depth) Backend assembly IP test to IP 68 according to IEC 60529.
Kynar Cable (Depth) Backend assembly needle flame tested according to IEC 60695-11-5: 2004.
TPE-U Cable (Depth) Backend assembly needle flame tested according to IEC 60695-11-5: 2004.

Marking of product

See Product description.

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