



CERTIFICATE NUMBER 18-LD1724718-PDA

EFFECTIVE DATE 08-Jun-2018

EXPIRATION DATE 07-Jun-2023

ABS TECHNICAL OFFICE London

CERTIFICATE OF

## Product Design Assessment

This is to certify that a representative of this Bureau did, at the request of

**KONGSBERG MARITIME AS, TRONDHEIM**

located at

**SKONNERTVEGEN 1, 7053 RANHEIM, TRONDHEIM, Norway, 7005**

assess design plans and data for the below listed product. This assessment is a representation by the Bureau as to the degree of compliance the design exhibits with applicable sections of the Rules. This assessment does not waive unit certification or classification procedures required by ABS Rules for products to be installed in ABS classed vessels or facilities. This certificate, by itself, does not reflect that the product is Type Approved. The scope and limitations of this assessment are detailed on the pages attached to this certificate.

**Product** Pressure Transmitter

**Model** GT402, GT403, GT404, GT405, GT 406, GT420, GT422 and GT423

This Product Design Assessment (PDA) Certificate remains valid until 07-Jun-2023 or until the Rules and/or Standards used in the assessment are revised or until there is a design modification warranting design reassessment (whichever occurs first).

Acceptance of product is limited to the "Intended Service" details prescribed in the certificate and as per applicable Rules and Standards.

This Certificate is valid for installation of the listed product on ABS units which exist or are under contract for construction on or previous to the effective date of the ABS Rules and standards applied at the time of PDA issuance. Use of the Product for non-ABS units is subject to agreement between the manufacturer and intended client.

American Bureau of Shipping

Theodoros Chatzigiakidas, Senior Engineer

NOTE: This certificate evidences compliance with one or more of the Rules, Guides, standards or other criteria of ABS or a statutory, industrial or manufacturer's standards. It is issued solely for the use of ABS, its committees, its clients or other authorized entities. Any significant changes to the aforementioned product without approval from ABS will result in this certificate becoming null and void. This certificate is governed by ABS Rules 1-1-A3/5.9 Terms and Conditions of the Request for Product Type Approval and Agreement (2010)

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Tier: 2 - PDA Issued TC

**Product:** Pressure Transmitter  
**Model:** GT402, GT403, GT404, GT405, GT 406, GT420, GT422 and GT423  
**Intended Service:**  
Marine and Offshore Applications

**Description:**

A two wire 4-20mA sensor. Developed for level measurement in cargo, ballast, oil, service and fresh water tanks as well as tanks containing media, which are not hostile to ceramic. It can be used for pressure applications, atmospheric, ullage and pressure line.

**Rating:**

12-32 VDC all models except GT405 (11.5 to 28 VDC)  
Temperature: -45 to 85 degrees C  
IP Ratings:  
-GT403, GT423: IP68  
-GT402, GT422, GT405: IP66/67  
-GT406: IP20  
-GT420: IP66

**Service Restriction:**

Unit Certification is not required for this product. If the manufacturer or purchaser request an ABS Certificate for compliance with a specification or standard, the specification or standard, including inspection standards and tolerances, must be clearly defined.

**Comments:**

The Manufacturer has provided a declaration about the control of, or the lack of Asbestos in this product.

**Notes/Drawing/Documentation:**

Drawing No. 330633, TRF MAR EMC ENV GLH-320 and GT406, Date: 22-Sep-2017, NEMKO Group, Revision: -, Pages: -  
Drawing No. Documents overview, Documents overview, Revision: -, Pages: -  
Drawing No. E16195.01, Test Report Electromagnetic Compatibility, Date: 28-03-2017, NEMKO Group, Revision: -, Pages: -  
Drawing No. GT-1317, Pressure transmitter type GT403 AISI 316 and Titanium gr. 2, Revision: H, Pages: -  
Drawing No. GT-1369, Pressure Transmitter GT402 and GT404 0.5-600Bar, Revision: L, Pages: -  
Drawing No. GT-1801, Pressure Transmitter GT406, Revision: 1, Pages: -  
Drawing No. Info GT4xx updated 15-02-2018, Changelog, Revision: -, Pages: -  
Drawing No. Nemko 02 ATEX 119X, EU-TYPE EXAMINATION CERTIFICATE, Revision: 6, Pages: -  
Drawing No. P-GT402, GT402 Pressure Transmitter, Revision: P, Pages: -  
Drawing No. P-GT403, GT403 Pressure Transmitter, Revision: P, Pages: -  
Drawing No. P-GT404, GT404 Pressure Transmitter, Revision: L, Pages: -  
Drawing No. P-GT405, GT405 Pressure Transmitter, Revision: F, Pages: -  
Drawing No. P-GT406, GT406 Pressure Transmitter, Revision: A, Pages: -  
Drawing No. P-GT406 CE A, Pressure Transmitter, Revision: -, Pages: 1  
Drawing No. P-GT42X, GT42X Differential Pressure Transmitter, Revision: D, Pages: -  
Drawing No. Statement GT406, Statement GT406, Revision: -, Pages: -

**Terms of Validity:**

This Product Design Assessment (PDA) Certificate 18-LD1724718-PDA, dated 08/Jun/2018 remains valid until 07/Jun/2023 or until the Rules or specifications used in the assessment are revised (whichever occurs first).

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**Tier: 2 - PDA Issued**

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This PDA is intended for a product to be installed on an ABS classed vessel, MODU or facility which is in existence or under contract for construction on the date of the ABS Rules or specifications used to evaluate the Product.

Use of the Product on an ABS classed vessel, MODU or facility which is contracted after the validity date of the ABS Rules and specifications used to evaluate the Product, will require re-evaluation of the PDA.

Use of the Product for non ABS classed vessels, MODUs or facilities is to be to an agreement between the manufacturer and intended client.

**STANDARDS**

**ABS Rules:**

- Steel Vessel Rules (2018): 1-1-4/7.7, 1-1-A3 & A4, 4-8-3/1.7, 4-9-8/7, 4-9-8/13, 4-9-8/Table1;
- Steel Vessels Under 90 Meters (295 Feet) in Length (2018): 1-1-4/7.7, 1-1-A3 & A4;
- Facilities on Offshore Installations (2018): 1-1-4/9.7, 1-1-A2 & A3;
- Offshore Support Vessels (2018): 1-1-4/7.7, 1-1-A3 & A4, 4-8-3/1.7, 4-9-8/7, 4-9-8/13, 4-9-8/Table1 and Table 2;
- Mobile Offshore Drilling Units (2018): 1-1-4/9.7, 1-1-A2 & A3, 4-1-1/7.9, 4-3-1/11, 6-1-1/9, 6-1-1/13;
- Steel Vessels for Service on Rivers and Intracoastal Waterways (2018): 1-1-4/7.7, 1-1-A3 & A4;
- High Speed Crafts (2018): 1-1-4/11.9, 1-1-A2 & A3;
- Steel Barge Rules (2018): 1-1-4/7.9, 1-1-A3 & A4;

**National:**

BS EN 61000-6-4:2007+A1:2011 & BS EN 61000-6-2 Oct 2005; EN 60945 (2002)+Cor1:2008

**International:**

IEC 60533 Ed. 3: 2015;  
IACS UR E10 Rev.6 (2014)

**Government:**

NA

**EUMED:**

NA

**OTHERS:**

NA

TC



### Drawing List

Drawing No.	Rev. No.	Title	Status
P-GT406_CE_A	-	Pressure Transmitter	Approved
Documents overview	-	Documents overview	Approved
Info GT4xx updated 15-02-2018	-	Changelog	Approved
GT-1801	1	Pressure Transmitter GT406	Approved
GT-1369	L	Pressure Transmitter GT402 and GT404 0.5-600Bar	Approved
P-GT402	P	GT402 Presssure Transmitter	Approved
P-GT42X	D	GT42X Differential Pressure Transmitter	Approved
GT-1317	H	Pressure transmitter type GT403 AISI 316 and Titanium gr. 2	Approved
P-GT404	L	GT404 Pressure Transmitter	Approved
P-GT406	A	GT406 Pressure Transmitter	Approved
Nemko 02 ATEX 119X	6	EU-TYPE EXAMINATION CERTIFICATE	Filed by ABS for reference only
P-GT403	P	GT403 Pressure Transmitter	Approved
Statement GT406	-	Statement GT406	Filed by ABS for reference only
P-GT405	F	GT405 Pressure Transmitter	Approved
330633	-	TRF MAR EMC ENV GLH-320 and GT406	Reviewed
E16195.01	-	Test Report Electromagnetic Compatibility	Reviewed