



Marine & Offshore

Certificate number: 12400/D0 BV

File number: AP 3467

Product code: 3891H

This certificate is not valid when presented without the full attached schedule composed of 7 sections

www.veristar.com

TYPE APPROVAL CERTIFICATE

This certificate is issued to

Kongsberg Maritime AS
Ranheim - NORWAY

for the type of product

PRESSURE TRANSMITTERS / TRANSDUCERS
GT400 series & GT300 series

Requirements:

BV Rules for the Classification of Steel Ships.

EC Code : 33/43B

This certificate is issued to attest that Bureau Veritas Marine & Offshore did undertake the relevant approval procedures for the product identified above which was found to comply with the relevant requirements mentioned above.

This certificate will expire on: 10 Sep 2025

For Bureau Veritas Marine & Offshore,

At BV OSLO, on 10 Sep 2020,

Rune MARSTEIN

Rune Marstein



This certificate remains valid until the date stated above, unless cancelled or revoked, provided the conditions indicated in the subsequent page(s) are complied with and the product remains satisfactory in service. This certificate will not be valid if the applicant makes any changes or modifications to the approved product, which have not been notified to, and agreed in writing with Bureau Veritas Marine & Offshore. Should the specified regulations or standards be amended during the validity of this certificate, the product(s) is/are to be re-approved prior to it/they being placed on board vessels to which the amended regulations or standards apply. This certificate is issued within the scope of the General Conditions of Bureau Veritas Marine & Offshore available on the internet site www.veristar.com. Any Person not a party to the contract pursuant to which this document is delivered may not assert a claim against Bureau Veritas Marine & Offshore for any liability arising out of errors or omissions which may be contained in said document, or for errors of judgement, fault or negligence committed by personnel of the Society or of its Agents in establishment or issuance of this document, and in connection with any activities for which it may provide.

THE SCHEDULE OF APPROVAL

1. PRODUCT DESCRIPTION:

Pressure Transmitter : **GT400 series** and **GT 300 series**:

GT 300 series Pressure Transmitters: GT300, GT301.

GT 400 series Pressure Transmitters: GT 402, GT 403, GT 404, GT405, GT406, GT420, GT422, GT423,
(Ex marking: Ex ia IIC T5, Tamb -45°C to 85°C)

GT 300 pressure transmitter is designed for general purposes used in engine rooms and other similar applications.

GT 301 pressure transmitter is designed for general purposes used in engine rooms and other similar applications and can also be mounted side by side on a valve rack.

GT 402 pressure transmitter is designed for general purposes in maritime applications inside and on open deck installations.

GT 403 pressure transmitter is designed to be submerged in ballast and service tanks to measure levels in the tanks.

GT 404 pressure transmitter is designed to measure the pressure on the cargo line.

GT 405 pressure transmitter is designed for general maritime applications inside and on open deck where high precision is a requirement.

GT 406 pressure transmitter is designed for general maritime applications in dry areas.

GT 42x differential pressure transmitter is designed for general maritime inside and on open deck with different cable connections and protection.

2. DOCUMENTS AND DRAWINGS:

Technical datasheet:

P-GT 402/CE Rev.P, P-GT 403/CE Rev.P, P-GT 404/CE Rev.L, P-GT405/CE Rev.F, P-GT 406/CE Rev.C, P-GT42x/CE Rev.D.

P-GT300/CE Rev. G, P-GT301/CE Rev. F.

3. TEST REPORTS:

- DNV Technical report N° 2002-3224 rev.1 dated 2002.05.16.
- DNV Technical report N° 2006-3295 rev.1 dated 2006.06.08.
- Nemko Test Report N°203951 dated 2012-06-13.
- electrosuisse certificate N°SEV 09 ATEX 0138X, dated 2011-08-05.

For modification D0 version:

Nemko:

- EU-Type Examination certificate, No. 02ATEX119X issue 6, dated 11-01-2017.
- IECEx Certificate, No. IECEx NEM 12.0008X issue 2, dated 21-03-2017.
- Test Report No. E16195.02, dated 28-03-2017.
- Test Report No. E17118.00, dated 22-09-2017.

4. APPLICATION / LIMITATION:

4.1 - BV Rules for the Classification of Steel Ships.

4.2 - Approval also valid for ships to be granted with the notations: **AUT-UMS, AUT-CCS, AUT-PORT and AUT-IMS.**

4.3 - BUREAU VERITAS Environmental Category, **EC Code: 43/33B.**

4.4 - The equipment fulfils the EMC requirements for installation on the Bridge and Deck Zones.

4.5 - The electrical safety type equipment may be used with a Zener barrier in areas considered as dangerous due to presence of flammable or explosive gases or vapours corresponding to the groups [I - IIA - IIB - IIC] and to the temperature class T5, as defined in IEC Classification, in accordance with Nemko Certificate N° 02ATEX119X.

4.6 - The products comply with the test requirements of IACS E10 Rev.7.

5. PRODUCTION SURVEY REQUIREMENTS:

5.1 - The above products are to be supplied by **Kongsberg Maritime AS** in compliance with the type described in this certificate.

5.2 - This type of product is within the category HBV of Bureau Veritas Rule Note NR320 and as such does not require a BV product certificate.

5.3 - **Kongsberg Maritime AS** has to make the necessary arrangements to have its works recognised by Bureau Veritas in compliance with the requirements of NR320 for HBV products.

5.4 - For information, **Kongsberg Maritime AS** has declared to Bureau Veritas the following production site(s):

**Kongsberg Maritime AS
Skonnertvegen 1
N-7053 Ranheim
NORWAY**

6. MARKING OF PRODUCT:

- Trade name.
- Date of manufacture and serial number.
- Equipment type number or model identification under which it was type-tested.

7. OTHERS:

7.1 - It is **Kongsberg Maritime AS's** responsibility to inform shipbuilders or their sub-contractors of the proper methods of fitting, use and general maintenance of the approved equipment and the conditions of this approval.

7.2 - This Certificate supersedes the Type Approval Certificate No. 12400/C0 BV issued on 14 Mar 2013 and No. 08230/D0 BV issued on 14 Mar 2013 by the Society.

*** END OF CERTIFICATE ***