



IECEX Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: **IECEX PRE 20.0103X** Page 1 of 3 [Certificate history:](#)
Status: **Current** Issue No: 0
Date of Issue: 2020-11-25
Applicant: **KONGSBERG MARITIME AS**
Skonnertvegen 1
Ranheim 7053
Norway
Equipment: **Pressure Transmitter**
Optional accessory:
Type of Protection: **Intrinsic safety**
Marking: Ex ia IIC T5 Ga Ta= -45°C to +85°C

Approved for issue on behalf of the IECEx
Certification Body:

Asle Kaastad

Position:

Certification Manager

Signature:
(for printed version)

Date:

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting www.iecex.com or use of this QR Code.



Certificate issued by:

DNV GL Presafe AS
Veritasveien 3
1363 Høvik
Norway





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Manufacturer: **KONGSBERG MARITIME AS**
Skonnertvegen 1
7053 Ranheim
Norway

Additional
manufacturing
locations:

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended

STANDARDS :

The equipment and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

IEC 60079-0:2017 Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

IEC 60079-11:2011 Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
Edition:6.0

This Certificate **does not** indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:

Test Report:

[NO/PRE/ExTR20.0104/00](#)

Quality Assessment Report:

[NO/PRE/QAR18.0016/01](#)



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The certificate covers the GT-series Pressure Transmitters mentioned in the table below for conversion of a pressure into an electrical 4-20mA current loop signal. The pressure transmitters comprise a pressure sensing element and electronic boards enclosed and encapsulated in a cylindrical metallic enclosure.

SPECIFIC CONDITIONS OF USE: YES as shown below:

- 1) The stated input values U_i , I_i , P_i are to be regarded as individual maximum values. It is a precondition that the diode safety barrier in the supply circuit has a linear resistive output characteristic.
- 2) When installing titanium sensors special caution must be taken to avoid ignition hazard due to impact or friction.
- 3) GT403 and GT423 are delivered with a cable end up 60meters of type PUR-cable with up to 102 μ H inductance and up to 7,2nF capacitance. The inductance and capacitance of the cable length the comes with the transmitter shall be added to L_i :neg. and C_i :30nF of the transmitter listed under Safety Data.

Annex:

[Annex to IECEx certificate.pdf](#)

Annex to certificate: IECEx PRE 20.0103X

Type Designations

Name	Type	Range	Signal range, Output	Material	Connection/design
GT402	Gauge, sealed gauge, absolute	Up to 600 bar	4-20mA, 2-wires with HART	Body of AISI 316 and wetted parts in AISI316 and Titanium	Connection box with lid and cable gland. Threaded process connection ISO 228-G1/2A. IP66/67
GT403	Sealed gauge, absolute	Up to 600 bar	4-20mA, 2-wires with HART	Body and wetted parts in AISI 316 and Titanium.	Watertight flanged connection with PUR cable. Threaded process connection ISO 228-G1/2A. IP68-6bar. GT403can have cable up to 60meters of type PUR-cable with following data: Maximum internal capacitance: Ci = 120nF/km Maximum internal inductance: Li = 1.7mH/km
GT404	Sealed gauge, absolute	Up to 40 bar	2-wires with HART	Body of AISI 316 and wetted parts in AISI316, Titanium and Hastelloy	Connection box with lid and cable gland. Flanged process connection with large diaphragm facing cargo. IP66/67
GT420	Differential	Up to 25 bar	2-wires with HART	Body of Stainless Steel and wetted parts in AISI316	Standard DIN power connector. Threaded process connection ISO 228-G1/2A. IP66
GT422	Differential	Up to 25 bar	2-wires with HART	Body of Stainless Steel and wetted parts in AISI316	Connection box with lid and cable gland. Threaded process connection ISO 228-G1/2A. IP66/67
GT423	Differential	Up to 25 bar	2-wires with HART	Body of Stainless Steel and wetted parts in AISI316	Watertight flanged connection with PUR cable. Threaded process connection ISO 228-G1/2A. IP68-6bar. GT423 can have cable up to 60meters of type PUR-cable with following data: Maximum internal capacitance: Ci = 120nF/km Maximum internal

					inductance: Li = 1.7mH/km
GT406	Sealed gauge, absolute	Up to 10 bar	2-wires with HART	Body of AISI 316 and wetted parts in AISI316	Threaded process connection ISO 228- G1/4A. Threaded process connection ISO 228-G1/2A. IP20

Electrical Safety Parameters for models GT-4xx series

Maximum input voltage. **U_i: 28V**
 Maximum input current. **I_i: 150mA**
 Maximum input power. **P_i: 0.85W**
 Maximum internal capacitance. **C_i: 30nF**
 Maximum internal inductance. **L_i: neg.**