DNV

TYPE APPROVAL CERTIFICATE

Certificate no.:
TAA000029D
Revision No:
1

This is to certify:

that the Level Transmitter

with type designation(s)
GT 310 / GT 310T

issued to
Göpfert AG
Weddingstedt, Germany

is found to comply with
DNV 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.

Temperature	**B**
Humidity	**B**
Vibration	**A**
EMC	**B**
Enclosure	**Required protection according to the Rules shall be provided upon installation on board.**

Issued at **Hamburg** on **2024-03-23**

This Certificate is valid until **2029-03-22.**
DNV local unit: **Hamburg – CMC North/East**

Approval Engineer: **Torsten Dzillak**

for **DNV**

Digitally Signed By: Papanuskas, Joannis
Location: DNV SE Hamburg, Germany

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.

DNV

Job ID: **262.1-030400-2**
Certificate no.: **TAA000029D**
Revision No: **1**

Product description
Level transmitter with metal sensor and fully welded stainless steel design.

- Ranges from 10 mbar to 25 bar gauge and absolute
- Digital 4 ... 20 mA output with HART protocol
- Accuracy ⩽ ± 0,25% FS @ 25° C and ⩽ ± 0,5% FS (⩽...250mbar)
- Optional integrated Pt 100 / Pt 1000 sensor
- Supply voltage 12 ... 30 VDC
- Explosion proof marking: Ex ia IIC T4 / T6 Ga
- Used cable in accordance to the flame test report Nexans SQ086/13

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
Test reports : EMC Hermes 13-L-00126-01 (2013-01-17); Environmental Paconsult 13-5261 rev 1 (2013-08-28); flame test report SQ086/13
Technical documentation: Data sheet GT310/GT310T version 09.13-01
Explosion proof certificate TPS 13 ATEX 85150 002
Test Report ElektroMagnetic Compatibility Document-no.070454.514.24 V1.0
Type Approval Assessment Report 2024-02-22

Tests carried out
Applicable tests according to class guideline DNV-CG-0339, August 2021.

Marking of product
The products to be marked with:

- Model name
- Manufacturer name
- 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

END OF CERTIFICATE