



CERTIFICATE NUMBER 21-2147420-PDA
EFFECTIVE DATE 06-Aug-2021
EXPIRATION DATE 05-Aug-2026
ABS TECHNICAL OFFICE CN Shanghai ESD

CERTIFICATE OF

Product Design Assessment

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

TRAFAG AG

located at

INDUSTRIESTRASSE 11, CH-8608 BUBIKON, Switzerland

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 NAVITRAG N 8202

This Product Design Assessment (PDA) Certificate remains valid until 05/Aug/2026 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

Bin-Hong Wang, Director

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

TRAFAG AG

INDUSTRIESTRASSE 11

CH-8608 BUBIKON

Switzerland

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Web: www.trafag.com

Tier: 3 - Type Approved, unit certification not required

Product: Pressure Transmitter

Model: NAVITRAG N 8202

Endorsements:

Intended Service:

Pressure control, alarm and monitoring functions for Marine Applications.

Description:

2-wire pressure transmitter with thin film strain gauge.

Rating:

Measuring ranges: 0...0.6 to 0...600 bar.

Power supply voltage: 12 V... 34 V DC, Nominal Voltage: 24 V DC.

Output signal: 4...20 mA.

Ambient temperature: -25°C to 85°C.

Medium temperature: -25°C to 125°C.

Degree of Protection: Min. IP65

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:

1. The Manufacturer has provided a declaration about the control of, or the lack of Asbestos in this product.
2. The enclosures of the pressure transmitter necessarily situated in the below location is to provide suitable protection against the ingress of water:
 - Shaft or pipe tunnels in double bottom and open decks: IP56
 - Bilge wells: IPX8

Notes/Drawing/Documentation:

Drawing No. Decl 20210705, DoC, Revision: -, Pages: -

Drawing No. H72206i, Datasheet 8202, Revision: i, Pages: 6

Drawing No. UB14283, Electrical and Temperature Tests, dated 25-July-2019 by TEA AG, Revision: n/a, Pages: 11

Drawing No. V-19056, Supply Test, dated 30-Aug-2019 by Trafag AG, Revision: n/a, Pages: 5

Drawing No. 19CH-00071.E01, Electromagnetic compatibility, dated 23-Aug-2019 by Eurofins Electrosuisse Product Testing AG, Revision: n/a, Pages: 33

Terms of Validity:

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STANDARDS

ABS Rules:

1-1-4/7.7, 1-1/A3 and 4, 4-8-3/1.7, 4-8-3/1.11, 4-8-3/1.17 and 4-9-9/13.1 of Marine Vessels Rules - 2021

National:

NA

International:

NA

Government:

NA

EUMED:

NA

OTHERS:

NA