



Marine & Offshore

Certificate number: 03556/10 BV

File number: AP1188

Product code: 3891H

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

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## TYPE APPROVAL CERTIFICATE

*This certificate is issued to*

**TRAFAG AG**

Bubikon - SWITZERLAND

*for the type of product*

**PRESSURE TRANSMITTERS / TRANSDUCERS**

NAVITRAG

Type: N 8202

**Requirements:**

Bureau Veritas Rules for the Classification of Steel Ships

*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: 24 Feb 2025**

**For Bureau Veritas Marine & Offshore,**

At BV HAMBURG, on 24 Feb 2020,

Dirk Hoepfner



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](http://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 electronic version is available at: <http://www.veristarnb.com/veristarnb/jsp/viewPublicPdfTypepec.jsp?id=d3furnh8kv>

BV Mod. Ad.E 530 June 2017

This certificate consists of 3 page(s)

## THE SCHEDULE OF APPROVAL

### 1. PRODUCT DESCRIPTION:

NAVITRAG N 8202 is a pressure transmitter.

#### 1.1 - Main Characteristic:

	<b>N 8202</b>
Range:	0 ... 1.0 to 0 ... 600bar
Output signal:	4 ... 20mA
Power supply:	12 ... 34V
Degree of protection:	min. IP65
Pressure connection:	G 1/4", G 1/2"
Sensor:	Thin film on steel

#### 1.2 - Order code: aaaa.bb.cc.dd.ee.ff

<b>aaaa</b> = Sensor type:	8202
<b>bb</b> = Range:	71; 73 to 86
<b>cc</b> = Sensor:	22; 26
<b>dd</b> = Pressure connection:	10; 11
<b>ee</b> = Fixing:	31
<b>ff</b> = Accessories:	27; 28; 40

### 2. DOCUMENTS AND DRAWINGS:

Datasheet: H72206i dated 07/2018

Drawings: B64017g dated 25.06.18; B64301g dated 09.05.18

### 3. TEST REPORTS:

Test report dated 17/01/1994

Note: Documents filed in AP1118.

For I0 version:

- eurofins: 19CH-00071.E01 dated Aug. 27, 2019
- TEA: UB14283 dated 2019-07-25
- Trafag: V-19056 dated 2019-08-30

### 4. APPLICATION/LIMITATION:

4.1 - Bureau Veritas Rules and Regulations for the Classification of Steel Ships

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

4.3 - The above pressure transmitter comply with EMC requirements of IACS UR E10 Rev7.

4.4 - Equipment is to be supplied with manual(s) for installation, use and maintenance.

### 5. PRODUCTION SURVEY REQUIREMENTS:

5.1 - The above mentioned product is to be supplied by **TRAFAG AG** 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 - **TRAFAG AG** has to make the necessary arrangements to have its works recognized by Bureau Veritas in compliance with the requirements of NR320 for HBV products:

**TRAFAG AG**  
**Industriestrasse 11**  
**8608 Bubikon**  
**SWITZERLAND**

### 6. MARKING OF PRODUCT:

- Maker's name or trademark
- Equipment type or model identification
- Date of manufacture and/or serial number

**7. OTHERS:**

7.1 - It is the responsibility of **TRAFAG AG** 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 N° 03556/H0 BV issued on 23 Mar 2015 by the Society.

**\*\*\* END OF CERTIFICATE \*\*\***