



Marine & Offshore
Division

Certificate number: 03556/H0 BV

File number: AP 1188

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

Type: N 8202, ND 8204, H 8212

Pressure transmitter

Requirements:

Bureau Veritas Rules for the Classification of Steel Ships.

This certificate is issued to attest that BUREAU VERITAS 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: 23 Mar 2020

For BUREAU VERITAS,

At BV HAMBURG, on 23 Mar 2015,

Sandro Schmidt



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. 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 Division 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 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.

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BV Mod. Ad.E 530 October 2014

This certificate consists of 2 page(s)

THE SCHEDULE OF APPROVAL

1. PRODUCT DESCRIPTION:

The **N 8202**, **ND 8204**, **H 8212** series are relative or absolute pressure transmitter.

1.1 - Main Characteristic:

	N 8202	ND 8204	H 8212
Range:	0 ... 1.0 to 0 ... 600bar	0 ... 1.0 to 0 ... 16bar	0 ... 1.6 to 0 ... 600bar
Output signal:	4 ... 20mA	4 ... 20 mA	4 ... 20 mA
Power supply:	12 ... 34V	12 ... 34V	12 ... 34V
Degree of protection:	min. IP65	min. IP65	IP65
Pressure connection:	G 1/4", G 1/2"	G 1/4"	G 1/4", G 1/2"
Sensor:	Thin film on steel	Thin film on steel	Thin film on steel

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

aaaa = Sensor type:	8202	8204	8212
bb = Range:	71; 73 to 86	71; 55; 75; 58; 77; 78; 79	73 to 86
cc = Sensor:	22; 26	22	22
dd = Pressure connection:	10; 11	10	10; 11
ee = Fixing:	31	00; 31	01; 36
ff = Accessories:	27; 28; 40	27; 40	27; 28; 40; 41; 44

2. DOCUMENTS AND DRAWINGS:

Datasheet: H72206h dated 01/2015; H72207i dated 12/2014; H72218i dated 01/2015

Drawings: B 23099, B 23179C, B65670-1/2/3, B65683-1/2/3.

Note: Documents filed in AP1118.

3. TEST REPORTS:

Test report dated 17/01/1994

Note: Documents filed in AP1118.

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**.

5. PRODUCTION SURVEY REQUIREMENTS:

5.1 - The above mentioned products are 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.

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
CH-8608 Bubikon - SWITZERLAND

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

6. MARKING OF PRODUCT:

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

7. OTHERS:

7.1 - This approval is given on the understanding that the Society reserves the right to require check tests to be carried out on the units at any time and that **TRAFAG AG - SWITZERLAND**, will accept full responsibility for informing shipbuilders, ship owners or their sub-contractors of the proper methods of use and general maintenance of the units and the conditions of this approval.

7.2 - This certificate supersedes the Type Approval Certificate N° 03556/G0 BV issued on 15 Mar 2010 by the Society.

*** END OF CERTIFICATE ***