



Marine & Offshore

Certificate number: 19393/C0 BV

File number: AP3808

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

8264 PICOTRANS NPN series and 8298 EPN series.

Requirements:

Bureau Veritas Rules for the Classification of Steel Ships.

EC Code: 33S/43S

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: 15 Mar 2023

For Bureau Veritas Marine & Offshore,

At BV HAMBURG, on 15 Mar 2018,

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. 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.

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BV Mod. Ad.E 530 June 2017

This certificate consists of 3 page(s)

THE SCHEDULE OF APPROVAL

1. PRODUCT DESCRIPTION:

8264 PICOTRANS NPN series and 8298 EPN series are thin film on steel pressure transmitters.

1.1 - Main characteristics:

	8264 series	8298 series
Pressure Range (bar):	0 - 2.5 to 0 - 250	0 - 2.5 to 0 - 2500
Supply Voltage (V DC):	9 to 32, 24 Nominal	9 to 32, 24 Nominal
Output :	4 - 20mA / 2 wires	4 - 20mA / 2 wires 0.5 to 4.5V DC ratiometric
Operating Temperature:	-40 to 100°C	-40 to 125°C, media temp. 135°C
Electrical Connection:	Plug (DIN 43650)	Plug (DIN 43650)
Pressure Connection:	G1/4", G1/8", M10x1.0	G1/4", R1/4"
Sensor / Body Materials:	Stainless Steel	Stainless Steel
Degree of Protection:	IP 65 (without Plug-in) / IP69K	IP 65 (without Plug-in) / IP69K

1.2 - Variants:

Sensor Type: 8264 . aa . bb cc . dd . 19 . ee
aa = Pressure range:
 74 to 85 (excluding 84)
bb = Sensor accuracy:
 23, 25
cc = Pressure connection:
 10, 17, 18
dd = Electrical connection:
 04, 78
ee = Accessories:
 40, 41, 43, 45, 55, 57, 58, 74, 92, V3, 1M, 2M, 3M

Sensor Type: 8298 . aa . bb cc . dd . ee . ff
aa = Pressure range:
 74 to 86, 89 to 91
bb = Sensor accuracy:
 23, 25
cc = Pressure connection:
 11, 17, 19, 28, 29
dd = Electrical connection:
 04, 05, 25, 78
ee = Output signal:
 19, 23
ff = Accessories:
 40, 43, 45, 58, 92, 1M, 3M, 5M

2. DOCUMENTS AND DRAWINGS:

- Data sheet: H72312o dated 01/2017; H72313n dated 02/2017; H73311h dated 06/2010; H73313f dated 06/2016
- B62120 Rev. p dated 24.08.16; B62200 Rev. c dated 28.03.08; B62250 Rev. s dated 19.06.2017;
- C12890 Rev. l dated 15.03.2017; C15988 Rev. d dated 03.06.16
- B62300 Rev. e dated 22.06.16; B62440 Rev. d dated 22.05.15; B63590 Rev. e dated 03.07.15

3. TEST REPORTS:

TRAFAG AG:

- V-0605 dated 12.04.2006; V-0554 dated 19.07.05; V-0647 dated 17.05.06; V-07109 dated 07.03.2008;
- V-08055 dated 01.04.2008; V-08101 dated 04.08.2008; V-08102 dated 13.08.2008; V-10015 dated 09.04.2010

EMC-TEST CENTER ZÜRICH AG:

- EMCKP689A dated 10.01.2006

ENL Testing Laboratory:

- 20051228.A02.03 dated 2005-December-19th; 20061027.A05.01 dated 2006-April-10th.

SEV Association:

- 09-IK-0248.01 dated 27.08.2008

SPEKTRA Schwingungstechnik und Akustik GmbH:

- 80430.A.1.1 dated 29.07.2008; 80430.C.1.1 dated 29.07.2008

4. APPLICATION / LIMITATION:

- 4.1 - Bureau Veritas Rules 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 - Bureau Veritas Environmental Category, **EC Code: 33S/43S.**
- 4.4 - The equipment does not fulfil the EMC requirements for installation in Bridge Zone.

5. PRODUCTION SURVEY REQUIREMENTS:

5.1 - The above mentioned pressure transmitter 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 and as such does not require a BV product certificate.

5.3 - **Trafag AG** has to make the necessary arrangements to have its works recognised by Bureau Veritas in compliance with the requirements of NR320 for HBV products :

TRAFAG AG
Industriestrasse 11
8606 Bubikon
SWITZERLAND

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

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 in the responsibility of **TRAFAG AG - SWITZERLAND** 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° 19393/B0 BV issued on 21 Jan 2013 by the Society.

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