



Marine & Offshore
Division

Certificate number: 13242/C0 BV

File number: AP 3526

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: 8498 series
MARINE PRESSURE TRANSMITTER.

Requirements:

Bureau Veritas Rules for the Classification of Steel Ships and Offshore Units.

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: 20 Aug 2019

For BUREAU VERITAS,

At BV HAMBURG, on 20 Aug 2014,

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. 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 May 2009

This certificate consists of 3 page(s)

THE SCHEDULE OF APPROVAL

1. PRODUCT DESCRIPTION:

The **8498** series are marine pressure transmitter for absolute and relative pressure measurement.

1.1 - Main characteristics:

Power supply: 24 VDC
 Output signal: 4-20 mA - 2 wires connection
 Element: Ceramic + FKM O-Ring
 Accuracy: $\pm 0.5\%$ FS
 Degree of protection: IP 65

1.2 - Measuring ranges:

Range (bar)	Overpressure (bar)	Burst pressure (bar)
0 - 1.0	4	5
0 - 1.6	4	5
0 - 2.5	6	7.5
0 - 4.0	10	12
0 - 6.0	15	18
0- 10.0	25	30
0 - 16.0	40	48
0 - 25.0	60	75
0 - 40.0	80	120
0 - 60.0	120	180
0 - 100.0	200	300
0 - 160.0	320	480
0 - 250.0	500	750

2. DOCUMENTS AND DRAWINGS:

- Technical specification H72239d dated 07/2008 and drawings

Note: Documents filed in AP 3526.

3. TEST REPORTS :

EMC Testcenter Zürich: - EMC 075/02 dated 14.10.2002

ILK Dresden: - 095/2003 dated 19.03.2003; 102/2003 dated 02.04.2003

TRAFAG AG: - V-224 dated 17.12.2002; V-224a dated 07/03/2003; V-08088 dated 18.07.2008

4. APPLICATION/LIMITATION:

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

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: 33.**

4.4 - The equipment fulfils the EMC requirements for installation in General Power Distribution Zone.

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 recognised by Bureau Veritas in compliance with the requirements of NR320 for HBV products:

TRAFAG AG
Industriestrasse 11
8608 Bubikon
SWITZERLAND

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