



MARINE DIVISION

Certificate number: 19392/B0 BV

File number: AP3814

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: NAE 8255 series

**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: 18 Oct 2017****For BUREAU VERITAS,**

At BV HAMBURG, on 18 Oct 2012,

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 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.

## THE SCHEDULE OF APPROVAL

### 1. PRODUCT DESCRIPTION:

The NAE 8255 series are thin film on steel pressure transmitters. These sensors are intended to be used on marine engines.

#### 1.1 - Main characteristics:

Pressure range (bar):	0 - 2.5 to 0 - 600 (Gauge)
Supply voltage (VDC):	9 to 32 - 24 Nominal
Output (mA):	4 - 20 / 2-wires
Operating temperature (°C):	-40 to 125
Electrical connection:	Plug (DIN 43650), M12x1.0
Pressure connection:	G1/4", NPT1/4", 7/16"-20UNF
Sensor / Body material:	Stainless Steel
Degree of protection:	IP 65 (with DIN Connector), IP65/67 with M12 Connector

#### 1.2 - Variants:

Sensor Type: 8255 . aa . bb cc . dd . 19 . ee

**aa = Pressure range:**

74 to 86

**bb = Pressure accuracy:**

21, 23

**cc = Pressure connection:**

17, 18, 30

**dd = Electrical connection:**

01, 32, 35

**ee = Accessories:**

33, 34, 40, 43, 45

### 2. DOCUMENTS AND DRAWINGS:

- Data sheet: H72301f dated 02/2007
- Instructions: H73250c dated 02/2006
- B62081 Rev. 1 dated 23.02.12; B62179 Rev. d dated 04.05.09; B62464 Rev. c dated 17.03.11; B64335 Rev. b dated 16.04.07;
- B64350 Rev. d dated 07.02.11; B64370 Rev. a dated 17.02.06

### 3. TEST REPORTS:

**TRAFAG AG:**

- V-0603 dated 29.03.2006; V-0663 dated 29.06.06; V-0664 dated 28.06.06.

**EMC-TEST CENTER ZÜRICH AG:**

- EMCKP796A dated 30.06.06.

**ENL Testing Laboratory:**

- 20051228.A02.04 dated 2005-December-19th; 20061027.A05.01 dated 2006-April-10th.

### 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 fulfils the EMC requirements for installation in General power Distribution Zones.

### 5. PRODUCTION SURVEY REQUIREMENTS:

- 5.1 - The above mentioned products are to be manufactured, examined and tested by **TRAFAG AG** in accordance with the type described in this certificate and Bureau Veritas Rules for the Classification of Steel Ships.
- 5.2 - Production sites are to be recognized by Bureau Veritas as per NR320 for HBV products. To this end **TRAFAG AG** has to make the necessary arrangements for a Society's Surveyor to perform visits and product audits at the production sites.
- 5.3 - **TRAFAG AG** has declared to Bureau Veritas that the type of product described in this certificate are manufactured at the following production site:

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

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

### 6. MARKING OF PRODUCT: