



Marine & Offshore  
Division

Certificate number: 41493/A0 BV

File number: AP4618

Product code: 3891H

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

www.veristar.com

## TYPE APPROVAL CERTIFICATE

*This certificate is issued to*

**TRAFAG AG**

Bubikon - SWITZERLAND

*for the type of product*

**PRESSURE TRANSMITTERS / TRANSDUCERS**

NAE 8256

**Requirements:**

Bureau Veritas Rules for the Classification of Steel Ships

EC Code: 33

*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: 24 Jul 2020**

**For BUREAU VERITAS,**

At BV HAMBURG, on 24 Jul 2015,

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.

The electronic version is available at: <http://www.veristarm.com/veristarnb/jsp/viewPublicPdfTypepec.jsp?id=zfu2h8wl29>

BV Mod. Ad.E 530 October 2014

This certificate consists of 3 page(s)

## THE SCHEDULE OF APPROVAL

### 1. PRODUCT DESCRIPTION:

The **NAE 8256** series are thin film on steel pressure transmitters.

#### **1.1 - Main characteristics:**

Pressure range (bar):	0 - 10 to 0 - 600
Supply voltage (VDC):	9 to 32; 24 Nominal
Output (mA):	4 - 20 / 2-wires
Operating temperature (°C):	-40 to 125 (depending from seal material)
Electrical connection:	Plug (DIN 43650); M12x1.0
Pressure connection:	G1/4"; NPT1/4"; M10x1
Sensor / Body material:	Stainless Steel
Degree of protection:	IP 65 (with DIN Connector); IP65/67 with M12 Connector

#### **1.2 - Variants:**

Sensor Type: 8256 . **aa bb cc dd** 19 (according to data sheet H72305a)

**aa = Pressure range:**

74, 78 to 86

**bb = Pressure accuracy:**

25, 23

**cc = Pressure connection:**

17, 30, 32

**dd = Electrical connection:**

01, 32, 35

### 2. DOCUMENTS AND DRAWINGS:

- Data sheet: H72305a dated 02/2015
- Instructions: H73303f dated 02/2015
- B54860 Rev. C dated 12.11.14; C21580 Rev. g dated 11.02.2015

### 3. TEST REPORTS:

#### **TRAFAG AG:**

- V-15048 dated 2015-06-26; V-14087 dated 2015-02-16

#### **EMC-Testcenter AG:**

- EMCKP2447.1B dated 20.04.2015

#### **ENL Testing Laboratory:**

- 20141145.A02.01 dated 2014-October-13;

### 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: 33.**

### 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:

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

**7. OTHERS:**

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, shipowners or their sub-contractors of the proper methods of use and general maintenance of the units and the conditions of this approval.

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