



EUROPEAN UNION RECOGNISED ORGANISATION (EU RO) MUTUAL RECOGNITION TYPE APPROVAL CERTIFICATE

In accordance with Article 10.1 of EU Regulation 391/2009

Certificate No:
MRA000003A
Revision No:
1

This Certificate is issued to

Trafag AG
Bubikon, ZH, Switzerland

for

Pressure Gauges/Transmitters

with type designation(s)

NAE 8256

The product is found to comply with

EU RO Mutual Recognition Technical Requirements for Pressure Gauges – Transmitters

Intended service

Applicable for a ship as defined in Mutual Recognition Provisions Article 10 Regulation on Common Rules and standards For Ship Inspection and Survey Organizations.

Temperature [°C]: -25°C / +70°C
Vibration: ± 1.6 mm / 4 g
EMC: All locations including bridge and deck zone
IP Code: IP 65

This is to certify:

that the Product referred to herein has been inspected for the Manufacturer, pursuant to the relevant requirements of the European Union Recognised Organisation Mutual Recognition procedure, required by Article 10.1 of EU Regulation 391/2009, and has been found in accordance with those requirements.

This Certificate is valid until **2031-07-08**.

Issued at **Hamburg** on **2026-07-09**

DNV local unit: **Augsburg**

Approval Engineer: **Dariusz Lesniewski**



for **DNV**

This document has been digitally signed and will
therefore not have handwritten signature

Frederik Tore Elter

This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid.
The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV AS, its parent companies and their subsidiaries as well as their officers, directors and employees ("DNV") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to 300,000 USD.

Product description

Pressure transmitter NAE 8256

Measuring range: 0 ... 0.2 bar to 0 ... 700 bar

Sensor: Relative pressure, accuracy $\pm 1\%$ FS @25°C

Pressure connection: male G1/4", G1/4" (Manometer), 1/4" NPT or M10x1

Electrical connection:

- Male electrical plug M12x1 5-pole
- Cable (length max. 2m)

Materials:

- Sensor/Pressure connection: 1.4542 (AISI630)
- Housing: 1.4301 (AISI304)
- Sealing: FPM/NBR/EPDM

Output: 4...20 mA, 1 or 2 PNP transistors

Power supply: 24V DC (Range 9...32V DC)

Degree of protection: IP65, IP67

IP67, IP68 (20bar, 30 min) - cable connection

Manufactured by

Trafag AG

Industriestrasse 11

CH 8608 Bubikon

Switzerland

Application/Limitation

Applicable for a ship as defined in Mutual Recognition Provisions Article 10 Regulation on Common Rules and standards For Ship Inspection and Survey Organizations.

Type Approval documentation

Name	Number	Date
Test Report	UB14650	2020-04-06
Test Report	UB17662 R.1	2026-06-26
Test Report	EMCKP4329A	2020-05-20
Test Report	EMCKP6600A	2026-04-30
Data Sheet	H72305p	08/2024
Assembly drawing	C21580v	2026-01-28
PCB drawing	B54860f	2017-09-15
PCB drawing	B53130d	2024-09-03
Cable drawing	E01496b	2018-01-16

EU RO MR Type approval periodical assessment report issued at Augsburg on 2026-04-08

Marking of product

- manufacturer name
- serial number
- type designation
- range
- power supply ratings

Other Conditions

Environmental test parameters

Temperature: -25°C / +70°C

Vibration: ± 1.6 mm / 4 g

Humidity: 95%RH @ 55°C, damp heat cyclic

EMC: All locations including bridge and deck zone

Enclosure: IP44

DNV location classes

D

B

B

B

B

Periodical assessment

The scope of the periodical assessment is to verify that the conditions stipulated for the type are complied with, and that no alterations are made to the product design or choice of systems, software versions, components and/or materials.

The main elements of the assessment are:

- Ensure that type approved documentation is available
- Inspection of factory samples, selected at random from the production line (where practicable)
- Review of production and inspection routines, including test records from product sample tests and control routines
- Ensuring that systems, software versions, components and/or materials used comply with type approved documents and/or referenced system, software, component and material specifications
- Review of possible changes in design of systems, software versions, components, materials and/or performance, and make sure that such changes do not affect the type approval given
- Ensuring traceability between manufacturer's product type marking and the type approval certificate

Periodical assessment will be performed annually and at renewal of the certificate.

END OF CERTIFICATE

Generic Statement for EU RO MR Type Approval Certificate

When a product is presented with this EU RO MR Type Approval Certificate for given application, its acceptability with regards to the limitations stated in the certificate conditions defined in 1b, 1c and 1d of the applied Technical Requirement will be evaluated by the EU RO in charge of classing the ship or being in charge of the unit/system certification.

In accordance with Article 10 of Regulation (EC) No 391/2009 of the European Parliament and of the Council of 23 April 2009 "on common rules and standards for ship inspection and survey organizations", the following organizations, recognized by the EU on this date, have agreed on the technical and procedural conditions under which they will mutually recognize this certificate:

- American Bureau of Shipping (ABS);
- Bureau Veritas (BV);
- China Classification Society (CCS);
- Croatian Register of Shipping (CRS);
- DNV;
- Indian Register of Shipping (IRS);
- Korean Register (KR);
- Lloyd's Register Group Ltd. (LR);
- Nippon Kaiji Kyokai General Incorporated Foundation (ClassNK);
- Polish Register of Shipping (PRS);
- RINA Services S.p.A. (RINA)

The scheme for the mutual recognition of class certificates for materials, equipment and components laid down by Article 10(1) of Regulation (EC) No 391/2009 is only enforceable within the Union in respect of ships flying the flag of a Member State. As far as foreign vessels are concerned, the acceptance of relevant certificates remains at the discretion of relevant non-EU flag States in the exercise of their exclusive jurisdiction, notably under the United Nations Convention on the Law of the Sea (UNCLOS). (In accordance with COMMISSION IMPLEMENTING REGULATION (EU) No 1355/2014 amending Regulation (EC) No 391/2009 - recital (25)).