

CERTIFICATE NUMBER
EFFECTIVE DATE
EXPIRY DATE
ABS TECHNICAL OFFICE

22-2320865-PDA 10-Jan-2023 09-Jan-2028 Gdynia Engineering Department

### **CERTIFICATE OF**

# **Product Design Assessment**

This is to certify that a representative of this Bureau did, at the request of

## **NORIS AUTOMATION GMBH**

located at

### F-BARNEWITZ-STR. 10, , D-18119 ROSTOCK, Germany

assess design plans and data for the below listed product. This assessment is a representation by the Bureau as to the degree of compliance the design exhibits with applicable sections of the Rules. This assessment does not waive unit certification or classification procedures required by ABS Rules for products to be installed in ABS classed vessels or facilities. This certificate, by itself, does not reflect that the product is Type Approved. The scope and limitations of this assessment are detailed on the pages attached to this certificate.

Product: Transducer

Model: NORISPEED

**Endorsements:** 

Tier: 2 - PDA Issued

This Product Design Assessment (PDA) Certificate remains valid until 09/Jan/2028 or until the Rules and/or Standards used in the assessment are revised or until there is a design modification warranting design reassessment (whichever occurs first).

Acceptance of product is limited to the "Intended Service" details prescribed in the certificate and as per applicable Rules and Standards.

This Certificate is valid for installation of the listed product on ABS units which exist or are under contract for construction on or previous to the effective date of the ABS Rules and standards applied at the time of PDA issuance. Use of the Product for non-ABS units is subject to agreement between the manufacturer and intended client.

American Bureau Of Shipping

Efstratios Maliatsos, Engineer/Consultar

NOTE: This certificate evidences compliance with one or more of the Rules, Guides, standards or other criteria of ABS or a statutory, industrial or manufacturer's standards. It is issued solely for the use of ABS, its committees, its clients or other authorized entities. Any significant changes to the aforementioned product without approval from ABS will result in this certificate becoming null and void. This certificate is governed by ABS Rules 1-1-A3/5.9 Terms and Conditions of the Request for Product Type Approval and Agreement (2010)

#### NORIS AUTOMATION GMBH

F-BARNEWITZ-STR. 10

D-18119 ROSTOCK

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Email: info.nar@noris-group.com Web: www.noris-group.com

Tier: 2 - PDA Issued

**Product: Transducer** Model: **NORISPEED** 

**Endorsements:** 

#### **Intended Service:**

Speed measuring and signal processing for Marine and Offshore Applications.

The multifunctional device detects the impulse signal and converts it into a speed proportional analogue signal. The device is equipped with potential free switching outputs for rotational direction, firing speed, nominal speed, over speed and device status.

#### Rating:

Power Supply: 24 V DC

Operating Temperature: -25 °C up to 70 °C

Degree of protection: IP40

#### **Service Restriction:**

Unit Certification is not required for this product. If the manufacturer or purchaser request an ABS Certificate for compliance with a specification or standard, the specification or standard, including inspection standards and tolerances, must be clearly defined.

#### **Comments:**

The Manufacturer has provided a declaration about the control of, or the lack of Asbestos in this product.

#### **Notes/Drawing/Documentation:**

Drawing No. 090.004.03.x0x, Drawings, Revision: A, Pages: 9

Drawing No. 204791b02, AMETEK CTS Europe GmbH, EMC Test Report No. D/20/4791/02 dated 29/SEP/2021,

Revision: -, Pages: 18

Drawing No. 113863b07, TESEQ GmbH - NORISPEED EMC Test Reports dated 27/SEP/2011, Revision: 7, Pages:

Drawing No. 3044390 030 pb015w, TUV Rheinland - Flammability Test Protocol dated 21/FEB/2012, Revision: 01,

Pages: 6 Drawing No. PB E5664 C, TUV Rheinland - NORISPEED Vibration Test Report dated 30/AUG/2011, Revision: C, Pages: 20

Drawing No. TTBMP11-001, NORISPEED Climate Report dated 23/NOV/2011, Revision: 1, Pages: 53

Drawing No. Correspondence, Online PDA Application NORISPEED, Revision: -, Pages: 5

Drawing No. DB-FMN6-en\_V01.00, NORISPEED - Multifunctional Device DHI Mail, Revision: 1, Pages: 2

Drawing No. NAR-KD-0105-2-en\_V109, NORISPEED - User Manual, Revision: 1.09, Pages: 58
Drawing No. NAR-PB-0105-1-en\_V102, NORISPEED - Product Test Report, Revision: 102, Pages: 64
Drawing No. NAR-PB-0105-2-en\_V101, NORISPEED - Product Test Report 6GHz, Revision: 1.01, Pages: 18
Drawing No. NAR-PD-0105-2-en\_V100, NORISPEED - Hardware Description, Revision: 1.00, Pages: 16
Drawing No. NAR-PD-0105-21-en\_V101, NORISPEED - Overview Approval - Renewal ABS, Revision: 1.01,

Pages: 1

Drawing No. NAR-PD-0105-3-en V200, NORISPEED - Software Description, Revision: 2.0.0, Pages: 181

Drawing No. NAR-PD-0105-4-en V105, NORISPEED - Revision Outline, Revision: 1.05, Pages: 8

Drawing No. NAR-PD-0105-10-en V100, NORISPEED Overview Suppliers, Revision: 1.00, Pages: 4

Drawing No. SL33-g V105, NORISPEED - SAR33-1G - Material List, Revision: 1.05, Pages: 7

Drawing No. SAR33-g-v100, Schematics, Revision: 100, Pages: 4

Drawing No. FMEA\_NORISPEED\_V003b, NORISPEED - FMEA, Revision: 3b, Pages: 9
Drawing No. SMS.W.II./51611/02/C.0, NORIS Recognition for BV Mode II Scheme, Revision: -, Pages: 2 Drawing No. DE011904-1 EN, BV ISO 9001:2015 Certificate issued 25/AUG/2021, Revision: -, Pages: 1

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Tier: 2 - PDA Issued

#### Terms of Validity:

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#### **STANDARDS**

#### **ABS Rules:**

2022 Rules for Conditions of Classification: 1-1-4/7.7, 1-1-A3 and A4, which covers the following: 2022 Rules for Building and Classing Marine Vessels: 4-8-3/1.7, 4-8-3/1.11.1, 4-8-3/1.17, 4-9-9/3, 4-9-9/7, 4-9-9/13.1

2022 Rules for Conditions of Classification – Offshore Units and Structures: 1-1-4/9.7, 1-1-A2 and A3, which covers the following:

2022 Rules for Building and Classing Mobile Offshore Units: 4-3-1/11, 4-3-1/15, 4-3-1/17

#### **National:**

NA

#### **International:**

IACS UR E10, Rev. 7: 2018

#### **Government:**

NA

#### **EUMED:**

NA

#### **OTHERS:**

NA