



CERTIFICATE NUMBER	20-2040589-PDA
EFFECTIVE DATE	14-Oct-2020
EXPIRY DATE	13-Oct-2025
ABS TECHNICAL OFFICE	Hamburg 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

MUGGENHOFER STRASSE 95, D-90429 NUERNBERG, 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 Monitoring Instruments

Model Stepping-motor analogue indicator NORIMETER 3.

Quadratic types: NIQ3-072, NIQ3-096, NIQ3-144, NIQ31-72, NIQ31-96, NIQ31-144.

Round types: NIR3-060, NIR3-080, NIR3-100, NIR3-130.

This Product Design Assessment (PDA) Certificate remains valid until 13/Oct/2025 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/Consultant

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)

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Tier: 2 - PDA Issued

Product: Monitoring Instruments

Model: Stepping-motor analogue indicator NORIMETER 3.

Quadratic types: NIQ3-072, NIQ3-096, NIQ3-144, NIQ31-72, NIQ31-96, NIQ31-144.

Round types: NIR3-060, NIR3-080, NIR3-100, NIR3-130.

Intended Service:

Illuminated display on AMS, ACC, ACCU and ABCU classed vessels.

Description:

Analogue instrument

Rating:

Nominal Supply Voltage: 24VDC;

Operating temperature: -25 ... +70 °C;

Degree of Protection: Front of housing IP66, IP67 and IP68, rear of housing IP30;

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. 04, Test specification for the class certification Norimeter 3, Revision: -, Pages: 4

Drawing No. 1. - BE1-1, Revision: -, Pages: 1

Drawing No. 2. - BE1-1G, Revision: -, Pages: 1

Drawing No. 3. - SR47-1, Revision: -, Pages: 1

Drawing No. 4. - BH91-1,, Revision: -, Pages: 1

Drawing No. 5. - Maier Illumiated Pointers, Revision: -, Pages: 2

Drawing No. 6. - Phoenix Connector 1786899, #315177,Revision: -, Pages: 5

Drawing No. 7. - Phoenix Connector 1835342, #315204,Revision: -, Pages: 5

Drawing No. DB_NIQ3_en_V02.03, Datasheet, Revision: -, Pages: 4

Drawing No. DB_NIR3_en_V02.03, Datasheet, Revision: -, Pages: 4

Drawing No. Flammability of case, Revision: -, Pages: 1

Drawing No. I645E Installation & User Manual NI3, Revision: -, Pages: 4

Drawing No. NI3 IP Protection Type Tests, PB_E6567-21225502-02, Revision: -, Pages: 12

Drawing No. NI3 Climatic Tests, 21225452, TÜV Rheinland, 22-Sep-2014, Revision: -, Pages: 9

Drawing No. NI3 Corrosion Test According SL1, EB TR 1403240-B_141203, TÜV Rehineland, Revision: -, Pages: 5

Drawing No. NI3 Corrosion Test According SL4-5, EB TR 1403240-C_141124, Revision: -, Pages: 4

Drawing No. NI3 Electromagnetic Compability Tests, 21218854, TÜV Rheinland, 14.01.2015, Revision: -, Pages: 88

Drawing No. NI3 Environmental Simulation, E5.214-21152593, TÜV Rheinland, 29-Jul-2010, Revision: -, Pages: 20

Drawing No. TTBmp 14-002 Norimeter 3_KE908 Klimatest, Revision: -, Pages: 14

Drawing No. TTBmp 14-002 Norimeter 3_KE908_1, Norimeter Salt Mist Test Degree 1, Revision: -, Pages: 8

Drawing No. TTBmp 14-002 Norimeter 3_KE908_4_5, Norimeter Salt Mist Test Degree 4_5, Revision: -, Pages: 7

Drawing No. Table of contents , Table of contents, Revision: -, Pages: 9

Drawing No. VTBmp 10-001NIR-060_NIK3-096_NIQ-144 eng, VTBmp 10-001NIR-060_NIK3-096_NIQ-144 eng, Revision: -, Pages: 9

----- Revalidation 2020 -----

Drawing No. 3, DB-NIQ31-EN_V01.05, Revision: .05, Pages: 1

Drawing No. 6, DB-NIR3_NIQ3-EN_V01.06, Revision: .06, Pages: 1

Drawing No. 7, ECL-EMC-TR-17-005-V01.00_Noris_Anzeiger + Sensoren_CE, Test Report, Electromagnetic Field 6GHz, Bureau Veritas, 19.01.2017, Revision: 01, Pages: 1

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Tier: 2 - PDA Issued

Drawing No. 8, HG-NIQ3-072-1_c, Revision: _c, Pages: 1

Drawing No. 9, HG-NIQ3-096-1_c, Revision: _c, Pages: 1

Drawing No. 10, HG-NIQ3-144-1_d, Drawing, Revision: _d, Pages: 1

Drawing No. 11, HG-NIQ31-072-1_d, Drawing, Revision: _d, Pages: 1

Drawing No. 12, HG-NIQ31-096-1_d, Drawing, Revision: _d, Pages: 1

Drawing No. 13, HG-NIQ31-144-1_b, Drawing, Revision: _b, Pages: 1

Drawing No. 14, HG-NIR3-060-1_c, Drawing, Revision: _c, Pages: 1

Drawing No. 15, HG-NIR3-080-1_c, Drawing, Revision: _c, Pages: 1

Drawing No. 16, HG-NIR3-100-1_c, Drawing, Revision: _c, Pages: 1

Drawing No. 17, HG-NIR3-130-1_c, Drawing, Revision: _c, Pages: 1

Drawing No. 18, NAN-KD-0020-1-EN_V01.02_NIR3, NIQ3 Quick User Guide, Revision: .02, Pages: 1

Drawing No. 19, NAN-KD-0020-EN_V01.05_NIQ3, NIR3, NIQ31 Instruction Manual, Revision: .05, Pages: 1

Drawing No. 20, Order Code NI3, Revision: 01, Pages: 1

Drawing No. 22, NORIS_DIN EN ISO 9001_E, Revision: _E, Pages: 1

Drawing No. 23, ECL-EMC-TR-20-102-V01.00_NORIS Automation GmbH_Anzeiger & Sensoren_CE, Test Report, Radiated Emissions 6GHz, Bureau Veritas, 04.09.2020, Revision: 01, Pages: 1

Terms of Validity:

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STANDARDS

ABS Rules:

2020 Marine Vessel Rules: 1-1-4/7.7, 1-1-A3, 1-1-A4, 4-8-3/1.7, 4-8-3/1.11.1, 4-8-3/1.17, 4-9-9/13.1, 4-9-9/Table 1
2020 Mobile Offshore Units Rules: 1-1-4/9.7, 1-1-A2, 1-1-A3, 4-3-1/11, 4-3-1/15, 4-3-1/17.1

National:

NA

International:

NA

Government:

NA

EUMED:

NA

OTHERS:

NA