

TYPE APPROVAL CERTIFICATE**This is to certify:****That the Peripheral Equipment**

with type designation(s)
N3000-DMP10, -DMP20, -DMP30, -DMP31, -DSP10, -DSP20, -SSP01

Issued to

NORIS Automation GmbH
Nürnberg Bayern, Germany

is found to comply with
DNV GL rules for classification – Ships, offshore units, and high speed and light craft

Application :

Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV GL.

Temperature	B
Humidity	B
Vibration	A
EMC	B
Enclosure	Required protection according to DNV GL Rules shall be provided upon installation on board

This Certificate is valid until **2021-11-01**.

Issued at **Hamburg** on **2016-11-02**

DNV GL local station: **Augsburg**

Approval Engineer: **Heinz Scheffler**

for **DNV GL**

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Duy Nam Le
Head of Section

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.

Product description

N3000-DMPxx: Display Master Unit for Alarm Extension System (xx: 10, 20, 30 and 31)
 N3000-DSP10, -DSP20: Display Slave Unit for Alarm Extension System
 N3000-SSP01: Signal Slave Panel for Alarm Extension System

Application/Limitation

The Type Approval covers hardware listed under Product description. When the hardware is used in applications to be classed by DNV GL, documentation for the actual application is to be submitted for approval by the manufacturer of the application system in each case. Reference is made to DNV GL Rules for Ships Pt.4 Ch.9 Control and Monitoring Systems

Type Approval documentation

N3000-DMP10, -DMP20, -DMP30, -DMP31:

	Document no.:	Rev.	Title
Drawings	58.034.220.3	b	Display Unit, N3000-DMP30
Device-Descriptions	Info 628	1.00	N3000-DMPxx Beschreibung
	NMS-KD-0023-2-en	01.04	N3000-DMP30/-DMP31, User Manual

N3000-DSP10, -DSP20:

	Document no.:	Rev.	Title
Drawings	58.034.224.1	15.12.2009	Display Unit, N3000-DSP10
	58.034.224.2	15.12.2009	Display Unit with Fire Alarm, N3000-DSP20
	HG-N3000-DSP10_20.DOC	01.00	Overview documents, N3000-DSP10/20 (Alarm extension system)
Device-Descriptions	NMS-KD-0026-1-en	01.02	N3000-DSP10, -DSP20, Installation Instruction
	NMS-KD-0026-2-en	01.03	N3000-DSP10, -DSP20, User Manual

N3000-SSP01:

	Document no.:	Rev.	Title
Drawings	58.034.223.3	28.06.2011	System N3000, N3000-SSP01-3
Device-Descriptions	NMS-KD-0035-1-en	01.02	N3000-SSP01, Installation Instruction
	NMS-KD-0035-2-en	01.02	N3000-SSP01, User Manual

Common documents:

	Document no.:	Rev.	Title
Test reports:	PB 00.101:2011-02	1.2	Type Approval, Product Test Report
	21171719_001 (part1)	29-Juli-2011	TUEV_21171719_001_N3000-DMP_-DSP10-20_-SSP01_EMC_Part1
	21171719_001 (part2)	29-Juli-2011	TUEV_21171719_001_N3000-DMP_-DSP10-20_-SSP01_EMC_Part2
	21172964	Oct. 26, 2011	VibTestRepNo_21172964_A_engl_N3-DMP-DSP10-SSP01
Misc.	Info 626 E	01.04	Firmware for N3000-DMP, N3000-DSP10, N3000-SSP01
	I632-N3000-DSP10	0.1	I632-N3000-DSP10-System&Kommunikation

Tests carried out

Job Id: **262.1-013482-3**
Certificate No: **TAA00000UZ**

Applicable tests according to class guideline DNVGL-CG-0339, November 2015.

Marking of product

Model name as listed under product description
Unique serial number
Power supply: 24 VDC

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 is to be performed at least every second year and at renewal of this certificate.

END OF CERTIFICATE