



NSM 400 – Declaration of Conformity



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Certification declaration referring International Association of Classification Societies (IACS) E10 and DNV GL Maritime

Manufacturer: SOMAG AG Jena
Am Zementwerk 8
07745 Jena
Germany

Description of the machine: NSM 400 – Nautical Stabilization Mount
Serial number:

We SOMAG AG Jena declare that the above-mentioned device fulfills the following standards:

Operating Temperature:

Per IACS E10 No. 5 / DNV GL-CG-0339 Section 3.7 dry heat test according to IEC 60068-2-2 and IACS E10 No. 11 / DNV GL-CG-0339 Section 3.9 cold test according to IEC 60068-2-1.

The system is capable of operating at all temperatures over the range of -30°C to +55°C.

Storage Temperature:

Per IACS E10 No. 5 / DNV GL-CG-0339 Section 3.7 dry heat test according to IEC 60068-2-2 and IACS E10 No. 11 / DNV GL-CG-0339 Section 3.9 cold test according to IEC 60068-2-1.

The system is capable of being stored at temperatures over from -55°C to +85°C for 16 hours.

Humidity:

Per IACS E10 No. 6 / DNV GL-CG-0339 Section 3 No. 8.3 damp heat test according to IEC 60068-2-30 at 95% RH and 55 °C for 2 x 24 hours.

The system maintains functional while/after being exposed to the humid environmental conditions.

Salt mist:

Per IACS E10 No. 12 / DNV GL-CG-0339 Section 3.10 salt mist test according to IEC 60068-2-52, Test Kb, 5% NaCl at 25 °C.

The system maintains functional after being exposed for 4x7 days, 28 days total salt mist/spray and remains fully functional.

Vibration:

Per IACS E10 No. 7 / DNV GL-CG-0339 Section 3.6 vibration tests according to IEC 60068-2-6 Test Fc. 2_{-0}^{+3} to 13.2 Hz – amplitude ± 1 mm, 13.2 Hz to 300 Hz (Standard parameter of 100 Hz extended to 300 Hz) – acceleration ± 0.7 g at 90 min per resonance frequency.

The system is capable to withstand the random vibration test powered up in any orientation and works properly after being exposed to it.



Ingress protection:

Per DIN EN IEC 60529:

- | | |
|-------|---|
| IP 6X | No ingress of dust during and after operation |
| IP X6 | Water projected in powerful jets against the enclosure from any direction has no harmful effects |
| IP X7 | Ingress of water in quantities causing harmful effects is prevented when the enclosure is immersed in 1 m of water for 30 minutes |

The system fulfills IP class 66 and 67 with cables or protective caps screwed to all connector ports.

Electromagnetic compatibility

Per IACS E10 / DNV GL-CG-0339 Section 3:

- Electrostatic discharge immunity according to IEC 61000-4-2
- Radiated electromagnetic field immunity according to IEC 61000-4-3
- Conducted low frequency immunity
- Conducted radio frequency immunity according to IEC 61000-4-6
- Electrical fast transient / burst immunity according to IEC 61000-4-4
- Electrical slow transient / surge immunity according to IEC 61000-4-5
- Insulation resistance
- High voltage
- Radiated emission according to CISPR 16-2-3 and IEC 60945, limits for equipment installed in the bridge and deck zone
- Conducted emission according to CISPR 16-2-1, limits for equipment installed in the bridge and deck zone

For further information, request document 2021_03_29 EMC_Test_NSM_400.

The system is capable of meeting all performance specifications during or after (as applicable) exposure to the following environments. Such exposure does not result in system damage or shortened useful life.

This declaration is no longer valid if the machine is modified without our consent.

Authorized Person for the technical documentation: Mr. Andreas Steps

Jena,

Location and date

Andreas Steps / CEO



EC – Declaration of Conformity

In accordance with the directive 2006/42/EC on Machinery of May 17, 2006 annex II A

We hereby certify that the following described machine in its conception, design and form put by us into circulation in accordance with all the relevant essential health and safety requirements of the directive 2006/42/EC on Machinery as amended and the national laws and regulations adopting this directive.

This declaration is no longer valid if the machine is modified without our consent.

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The agreement with further valid guidelines / regulations following for the product is explained:

- Directive 2014/30/EU of the European Parliament and of the Council relating to electromagnetic compatibility of February 26, 2014
- Directive 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment of June 8, 2011

Applied harmonized standards in particular:

- EN ISO 12100 Safety of Machinery
- EN 61000-6-2 Electromagnetic Compatibility (EMC)
- EN 55011 Radio Interference Suppression

Authorized Person for the technical documentation: Mr. Andreas Steps

Jena,

Location and date

Andreas Steps / CEO