



DET NORSKE VERITAS

TYPE APPROVAL CERTIFICATE

CERTIFICATE NO. **A-13519**

This is to certify that the
Peripheral Equipment

with type designation(s)

**DuraMON26WS, DuraMON26WS SL, DuraMON26WS Full, DuraMON26WS Full SL,
Display MD26 16:10 ECDIS, Display MD26 16:10 ECDIS MK2, Display MD26 16:10 ECDIS KM05**

Issued to

**ISIC A/S
BRABRAND, Denmark**

is found to comply with

**Det Norske Veritas' Rules for Classification of Ships and High Speed and Light Craft
Det Norske Veritas' Offshore Standards
IEC 60945 Ed. 4 (2002-08) Maritime navigation and radiocommunication equipment and systems - General
requirements - Methods of testing and required test results**

Application
Location classes:

Temperature	A
Humidity	B
Vibration	A
EMC	B
Enclosure	A / IP20

This Certificate is valid until **2016-06-30**.

Issued at **Høvik** on **2013-11-05**

DNV local station: **Aalborg**

Approval Engineer: **Ståle Sneen**

for **Det Norske Veritas AS**

Odd Magne Nesvåg
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.

If any person suffers loss or damage which is proved to have been caused by any negligent act or omission of Det Norske Veritas, then Det Norske Veritas shall pay compensation to such person for his proved direct loss or damage. However, the compensation shall not exceed an amount equal to ten times the fee charged for the service in question, provided that the maximum compensation shall never exceed USD 2 million. In this provision "Det Norske Veritas" shall mean the Foundation Det Norske Veritas as well as all its subsidiaries, directors, officers, employees, agents and any other acting on behalf of Det Norske Veritas.

Product description

ISIC 26" WS (16:10) Marine Monitor series comprising:

Model name	Part No.	Description
DuraMON26WS	05226-000	26" WS (16:10) Marine Monitor Build in
DuraMON26WS SL	05226-010	26" WS (16:10) Marine Monitor Build in – slimline
DuraMON26WS Full	05226-003	26" WS (16:10) Marine Monitor Build in
DuraMON26WS Full SL	05226-011	26" WS (16:10) Marine Monitor Build in – slimline
Display MD 26 16:10 ECDIS	05226-001	26" WS (16:10) Marine Monitor Build in
Display MD 26 16:10 ECDIS MK2	05226-009	26" WS (16:10) Marine Monitor Build in – slimline
Display MD 26 16:10 ECDIS KM05	05226-002	26" WS (16:10) Marine Monitor Build in – front KM05

Options for all models:

– Power supply 90-264 VAC 50/60 Hz (marine approved for 100-240 VAC nominal voltage)

Place of Manufacture

ISIC A/S

Edwin Rahrs Vej 54

DK-8220 Brabrand

Application/Limitation

The Type Approval covers hardware listed under Product description. When the hardware is used in applications to be classed by DNV, 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 Rules for Ships Pt.4 Ch.9 Control and Monitoring Systems.

Type Approval documentation

[2 page flyer – DuraMon WS 26" Wide Screen for Radar & ECDIS \(2011-05-03\)](#)

[2 page flyer – DuraMon WS 26" SL Wide Screen for Radar & ECDIS \(2013-10-14\)](#)

[User Reference Manual – DuraMON 26 WS – PN: 05435-000, Rev. A \(2011-07\)](#)

[DELTA Test Report No. DANAK-1911472, No revision \(2011-07-18\)](#)

[ISIC Product declaration dated 2013-10-09](#)

Tests carried out

Applicable tests according to Standard for Certification No. 2.4, April 2006.

Applicable tests for protected equipment according to IEC 60945, 4th edition (2002).

Radiated electromagnetic field immunity in the range 2 GHz to 6 GHz at 10 V/m according to IEC 61000-4-3:2006.

Compass safe distance measurements:

DuraMON26WS / MD 26 – all versions and options: Standard 160 cm. Steering 110 cm.

Marking of product

ISIC A/S

Model name as listed under Product description

Unique serial number

Power supply rating 90-264 VAC, 50/60 Hz

Compass safe distance

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