



EUROPEAN UNION RECOGNISED ORGANISATION (EU RO) MUTUAL RECOGNITION TYPE APPROVAL CERTIFICATE

Certificate No:
MRA000004K

In accordance with Article 10.1 of EU Regulation 391/2009

This Certificate is issued to

ISIC A/S

Brabrand, Midtjylland, Denmark

for

Touch Screen i.e. a Display Monitor or a Video Screen that is also an Input Device

with type designation(s)

DM215S, DM238S, DM 31.5 S / DuraMON 31.5 S

The product is found to comply with

EU RO Mutual Recognition Technical Requirements for Display Monitors, Video Screens, Terminals

EU RO Mutual Recognition Technical Requirements for Touch Screen i.e. a Display Monitor or a Video Screen that is also an Input Device

Intended service

Display for alarm and monitoring systems subject to classification.

Temperature [°C]: -15°C to 70°C

Vibration: ±1 mm / 0.7 g

EMC: All locations including bridge and open deck

IP Code: IP22 standalone, IP56 when sealed to console

This is to certify:

that the Product referred to herein has been inspected for the Manufacturer, pursuant to the relevant requirements of the European Union Recognised Organisation Mutual Recognition procedure, required by Article 10.1 of EU Regulation 391/2009, and has been found in accordance with those requirements.

This Certificate is valid until **2029-01-09**.

Issued at **Høvik** on **2024-01-10**

DNV local unit: **Denmark CMC**

for **DNV**

Approval Engineer: **Martin Skårerverket**

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Frederik Tore Elter
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.

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV AS, its parent companies and their subsidiaries as well as their officers, directors and employees ("DNV") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to 300,000 USD.



Form code: MRTA 201

Revision: 2022-12

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Product description

ISIC DuraMON S series, comprising the following models:

Product Type	Product Name	ISIC P/N*	Description
DM215S	DuraMON 22 S	09322-xxx	21.5" 16:9 FHD Marine Monitor w/glass front w.touch
DM238S	DuraMON 24 S	09324-xxx	23.8" 16:9 FHD Marine Monitor w/glass front w.touch
DM 31.5 S (DuraMON 31.5 S)	DuraMON 32 S	09332-xxx	31.5" 16:9 UHD Marine Monitor w/glass front w.touch

* xxx designates OEM variants of the products.

Technical information:

Product Type	DM215S	DM238S	DM 31.5 S
Approved for nominal AC supply voltage	100-240 VAC 50/60 Hz		
Approved for nominal DC supply voltage	24 VDC		N/A
Video inputs	2 x DisplayPort 1.2		2 x DisplayPort 1.2a 2 x HDMI 1.4
VESA mount	280 x 150 mm		400 x 200 mm
Input Device	PCAP multi touch		

Compass safe distance measurements:

DM215S: Standard 185 cm Steering 120 cm

DM238S: Standard 205 cm Steering 140 cm

DM 31.5 S: Standard 180 cm Steering 115 cm

Overview of tested hardware/firmware including name and versions are listed in ISIC's statement "ISIC statement no. 2023-10-03 Rev. A".

Manufactured by

ISIC A/S
Edwin Rahrs Vej 54
DK-8220 Brabrand

Application/Limitation

The Type Approval covers all hardware listed under Product description. The (touch) display monitor is intended for use in alarm and monitoring systems subject to classification.

Type Approval documentation

Marking of product

Manufacturer's name: ISIC

Type No.: Model name as listed under product description

Unique serial No.: YYWWxxxx

Year of manufacture: YYYY

(Additionally to the year of manufacture, year and week of production is included in the serial No.)

Power supply ratings: Mains voltage as listed under product description + maximum supply load

Other Conditions

The monitors including the PCAP touch option have been verified for compliance with EU Mutual Recognition Technical Requirements for touch screen i.e. a display monitor or a video screen that is also an input device version 0.4, covering also EU Mutual Recognition Technical Requirements for display monitors, video screens, terminals version 0.6.

Applicable tests according to IACS Unified Requirements E10 rev. 8. have been verified.

Applicable tests for protected equipment according to IEC 60945 (Fourth edition - 2002) including Corrigendum 1 have additionally been verified.

Environmental test parameters

Temperature: -15°C and 70°C

Vibration: ±1 mm / 0.7 g

EMC: All locations including bridge and open deck

Enclosure: IP22 standalone, IP56 when sealed to console
(IP ratings according to IEC 60529)

DNV location classes

B

A

B

A / C

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 after 2 years and after 3.5 years. A renewal assessment will be performed at renewal of the certificate.

END OF CERTIFICATE

Generic Statement for EU RO MR Type Approval Certificate

When a product is presented with this EU RO MR Type Approval Certificate for given application, its acceptability with regards to the limitations stated in the certificate conditions defined in 1b, 1c and 1d of the applied Technical Requirement will be evaluated by the EU RO in charge of classing the ship or being in charge of the unit/system certification.

In accordance with Article 10 of Regulation (EC) No 391/2009 of the European Parliament and of the Council of 23 April 2009 "on common rules and standards for ship inspection and survey organizations", the following organizations, recognized by the EU on this date, have agreed on the technical and procedural conditions under which they will mutually recognize this certificate:

- American Bureau of Shipping (ABS);
- Bureau Veritas (BV);
- China Classification Society (CCS);
- Croatian Register of Shipping (CRS);
- DNV;
- Indian Register of Shipping (IRS);
- Korean Register (KR);
- Lloyd's Register Group Ltd. (LR);
- Nippon Kaiji Kyokai General Incorporated Foundation (ClassNK);
- Polish Register of Shipping (PRS);
- RINA Services S.p.A. (RINA).

The scheme for the mutual recognition of class certificates for materials, equipment and components laid down by Article 10(1) of Regulation (EC) No 391/2009 is only enforceable within the Union in respect of ships flying the flag of a Member State. As far as foreign vessels are concerned, the acceptance of relevant certificates remains at the discretion of relevant non-EU flag States in the exercise of their exclusive jurisdiction, notably under the United Nations Convention on the Law of the Sea (UNCLOS). (In accordance with COMMISSION IMPLEMENTING REGULATION (EU) No 1355/2014 amending Regulation (EC) No 391/2009 - recital (25)).