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

Certificate No:
MRA000005A

In accordance with Article 10.1 of EU Regulation 391/2009

This Certificate is issued to

ISIC A/S

Brabrand, Midtjylland, **Denmark**

for
Computers and Programmable Logic Controllers

with type designation(s)
DP238S–Q370, DP270S–Q370, DP238S–Q670, DP270S–Q670

The product is found to comply with
EU RO Mutual Recognition Technical Requirements for Touch Screen i.e. a Display Monitor or a Video Screen that is also an Input Device
EU RO Mutual Recognition Technical Requirements for Display Monitors, Video Screens, Terminals
EU RO Mutual Recognition Technical Requirements for Computers and Programmable Logic Controllers

Intended service
Computers for control, monitoring, alarm, and safety functions subject to classification requirements.

Temperature [°C]:	**-15°C to 55°C (Operational),** **-15°C to 70°C (Non-Operational)**
Vibration:	**±1 mm / 0.7 g**
EMC:	**All locations including bridge and open deck**
IP Code:	**IP20(standalone),** **IP22 (upright),** **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 **2030-06-17**.

Issued at **Høvik** on **2025-06-18**

DNV local unit: **Denmark CMC** for **DNV**

Approval Engineer: **Nikolai Arntzen**

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.

Product description

ISIC panel computers for maritime use, comprising the following models:

Model type(s)	Product name(s)*	Part No.**	Description
DP238S–Q370	DuraPANEL 24 S – Q370	**11024-xxx**	**24" Panel Computer**
DP238S–Q670	DuraPANEL 24 S – Q670	**11124-xxx**	**24" Panel Computer**
DP270S–Q370	DuraPANEL 27 S – Q370	**11027-xxx**	**27" Panel Computer**
DP270S–Q670	DuraPANEL 27 S – Q670	**11127-xxx**	**27" Panel Computer**

*: example of customer specified type name.
** **-xxx**: customer specific variant number.

Technical information:

Product Type	DP238S–Q370	DP270S–Q370	DP238S–Q670	DP270S–Q670
Approved for nominal AC supply voltage	**100-240 VAC 50/60 Hz (100VA)***			
Approved for nominal DC supply voltage	**24 VDC (100W)***			
Video outputs	**2 x DisplayPort++**		**2 x DisplayPort 1.2 2 x HDMI 2.0**	
Interfaces connectors Input / Output	**2 x Gbit LAN 4 x USB 3.2 Gen. 2 Type A** 4 x USB 2.0 Type A* Up to 2 x 4 isolated RS422 (NMEA comp.)* 1 x RS232/422/485 (un-isolated)* 4 x Digital input + 4 x Digital output*			
Input Device	PCAP multi touch*			
VESA mount	**280 x 150 mm**			
Console mount	10585-124*	10585-127*	10585-124*	10585-127*
Table mount	10123-000*	10123-027*	10123-000*	10123-027*

* Optional

Minimum Compass Safe Distance:
DP238S-Q370: Standard 145 cm Steering 90 cm
DP238S-Q670: Standard 145 cm Steering 90 cm
DP270S-Q370: Standard 180 cm Steering 115 cm
DP270S-Q670: Standard 180 cm Steering 115 cm

Manufactured by

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

Application/Limitation

The Type Approval covers all hardware listed under Product description. The computers are intended for use in control, monitoring, alarm, and safety functions subject to classification requirements.

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
Power supply ratings: Input voltage as listed under product description + Input current 2.0 - 1.0 A

Other Conditions

The following EU Mutual Recognition Technical Requirements have been verified for all product listed under Product description:
- "Computers and programmable logic controllers" version 0.9, dated 2024-07.01,
- "Display Monitors, Video Screens, Terminals" version 0.7, dated 2024-07-01,

- "Touch screen i.e. a display monitor or a video screen that is also an input device" version 0.5, dated 2025-01-01.

Applicable tests according to IACS Unified Requirements E10 rev. 9. have been verified.

Applicable tests for protected equipment according to IEC 60945 (Fourth edition - 2002) including Corrigendum 1 have additionally been verified for all products listed under Product description.

Environmental test parameters	
Temperature:	-15°C and 55°C (Operational)
	-15°C and 70°C (Non-Operational)
Vibration:	±1 mm / 0.7 g
EMC:	All locations including bridge and open deck
Enclosure:	IP20 standalone
	IP22 upright position ± 30°
	IP56 when sealed to console

Module RS422 07906-000 is electrically tested for IEC 61162-1:2016 and IEC 61162-2:1998.

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 annually and at renewal of this 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)).