DNV·GL

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

Certificate No:
MRA000002U

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)
DuraPANEL 7 / CP7 and DuraPANEL 12 / CP12

The product is found to comply with
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 and 70°C**
Vibration:	**±0.7 g / ±1 mm**
EMC:	**All locations including bridge and open deck**
IP Code:	**IP20 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 **2025-08-25**.

Issued at **Høvik** on **2020-08-26**

DNV GL local station: **Denmark CMC** for **DNV GL**

Approval Engineer: **Ståle Sneen**

Marta Alonso Pontes
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 GL AS, its parent companies and subsidiaries as well as their officers, directors and employees ("DNV GL") 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.

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Product description

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

Model name	Part No.	Description
DuraPANEL 7 CP7	06607-xxx	7” panel computer
DuraPANEL 12 CP12	06612-xxx	12” panel computer

Nominal power supply: 24 V DC

Interfaces:
- External Video out: 1 x DVI-I video output connector
- Ethernet: 4 x 10/100/1000 Mbits/s Ethernet LAN on-board, (RJ45) with auto-negotiate
- USB: 7”: 2 x USB 2.0 (max 0.5 Amp per USB, max 5 Watt total)
  12”: 4 x USB 3.0 (max 0.5 Amp per USB, max 5 Watt total)
- COM: 1 x RS232/422/485 (configurable)

Other features:
- Built-in Buzzer (75-85 dB(A) / 1m)
- PCAP multi touch
- Optional TPM module for DuraPANEL 7 / CP7

Compass safe distance measurements:

- DuraPANEL 7 / CP7:	Standard: 45 cm.	Steering: 30 cm.
- DuraPANEL 12 / CP12:	Standard: 75 cm.	Steering: 55 cm.

Overview of tested hardware/firmware including name and versions are listed in ISIC’s statement “ISIC statement no. 2020-08-25 Rev.0”.

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.

EMC in the range 2 GHz to 6 GHz according to IACS UR E10 Rev.7, December 2019 has not been documented. EMC up to 6 GHz must additionally be documented for installation on ships contracted for construction on or after 2022-01-01.

The panels have touch screen functionality that was active during testing, but the functional type testing requirements of EU Mutual Recognition Technical Requirements for “Touch screen i.e. a display monitor or video screen that is also an input device” have not been documented. Any use of touch functionality in classed applications needs to be verified through functional testing.

Type Approval documentation

Marking of product

Manufacturer's name: ISIC
Type No.: Model name as listed under product description
Unique serial No. nRYYWWxxx
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 + Mains current

Other Conditions

EU Mutual Recognition Technical Requirements for "Computers and programmable logic controllers" version 0.6, dated 2020-05 have been verified for all product listed under Product description.

EU Mutual Recognition Technical Requirements for "Display Monitors, Video Screens, Terminals" version 0.4, dated 2019-07 have additionally been verified for products listed under Product description.

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		DNV GL Location Classes
Temperature:	-15°C and 70°C	B
Vibration:	±1mm / 0.7g	A
EMC:	All locations including bridge and open deck (EMC has been tested up to 2 GHz)	B
Enclosure:	IP20 standalone, IP56 when sealed to console	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 annually and at renewal of this certificate.

END OF CERTIFICATE

Job Id: **262.4-000200-1**
Certificate No: **MRA000002U**

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 GL;
- 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);
- Russian Maritime Register of Shipping (RS).

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)).