

**EU RO MUTUAL RECOGNITION
TYPE APPROVAL CERTIFICATE**

This Certificate is issued to

**Data Respons Norge AS
HØVIK, Norway**

for
Computers and Programmable Logic Controllers

with type designation(s)
MPCF1-10,4" Maritime Panel Computer

The product is found to comply with
**DNV TA program for EU-RO-MR for Computers and Programmable Logic Controllers
DNV TA program for EU-RO-MR for Monitors, Terminals**

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

**System context
Application of the control, monitoring, alarm, and safety systems are subject for approval of the individual RO classing the vessel.**

This Certificate is valid until **2020-01-27**.

Issued at **Høvik** on **2015-04-30**

DNV GL local station: **Oslo Maritime and CAP**

for **DNV GL**

Approval Engineer: **Nils Jarem**

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**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.

Certificate No: **MR-A-16**
File No: **MR-A003**
Job Id: **262.4-000022-1**

Product description

MPCF1-10,4" Maritime Panel Computer

Nominal voltage : 24V DC

Tested firmware versions:
U-boot Version 1.1.0
Touch Sensor FW Version V1.0

Compass safe distances :
Standard : 60 cm
Steering : 40 cm

Overview of tested firmware versions and revision history up to date of issue of this certificate are listed in Data Respons's "MPCF1-10,4 FW release statement; 5100047-005, Rev. A6" listed under Type Approval documentation

Manufactured by

Data Respons Norge AS
Olaf Helset's vei 5
NO-0694 Oslo
Norway

Application/Limitation

Approval does not cover mounting brackets.

This approval covers hardware only. This excludes firmware, application software, and hardware designed for specific applications subject to classification. Firmware, system software, and application software are subject to additional separate approval, according to UR E22 and the rules of the classing RO (FAT and on-board review / tests).

The unit has touch screen functionality, which is beyond the scope of this approval. The touch screen hardware has been verified according to the DNV TA program for EU-RO-MR for monitors and terminals, but any use of touch functionality in classed applications needs to be verified through functional testing.

The dimming function is programmable and needs to be verified through functional testing when used in a system subject to classification.

Internal buzzer is not considered to be alarm device.

Type Approval documentation

Data sheet :

MPCF1-10,4" Maritime Panel Computer, Released Revision: A Version: 1 Date: 21.10.2013

Test report:

Report No: 20157, Rev. 3, EMC and Environmental testing of maritime Panel PC type MPCF1-10,4.

User manual:

MPCF1-10.4" Panel Computer Technical Manual; 5100047-900, Rev. A.

Other:

MPCF1-10,4 FW release statement; 5100047-005, Rev. A6

Marking of product

Manufacturer's name: Data Respons Norge AS
Type No.: MPCF1-10,4" Maritime Panel Computer
Unique serial No.
Date of manufacture: Given by 3 first digits in SN
Power supply ratings: 24V max 1 A

Certificate No: **MR-A-16**
File No: **MR-A003**
Job Id: **262.4-000022-1**

Other Conditions

The units have been verified for compliance with EU Mutual Recognition Technical Requirements version 0.0, dated 2013-04-30.

EU Mutual Recognition Technical Requirements for "Display Monitors, Video Screens, Terminals" version 0.1, dated 2014-01-31 have additionally 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: -25°C and 70°C

Vibration: ±1mm / 0,7g

EMC: All locations including bridge and open deck

Enclosure: IP2X standalone and IP56 as console or flush mounted.

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