

# TYPE APPROVAL CERTIFICATE

**This is to certify:****That the Maritime Computer**with type designation(s)  
**MPCF1-10,4" Maritime Panel Computer**

Issued to

**Data Respons Norge AS  
HØVIK, Norway**

is found to comply with

**DNV GL rules for classification – Ships, offshore units, and high speed and light craft  
IEC 60945 Ed. 4 (2002-08) Maritime navigation and radiocommunication equipment and  
systems – General requirements – Methods of testing and required test results****Application :****Product(s) approved by this certificate is/are accepted for installation on all vessels classed  
by DNV GL.****Location classes:****Temperature D  
Humidity B  
Vibration A  
EMC B  
Enclosure A/C\*****\*Console mounted**Issued at **Høvik** on **2018-05-30**This Certificate is valid until **2023-06-30**.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.



Job Id: **262.1-017448-2**  
Certificate No: **TAA00001UU**

## Product description

MPCF1-10,4" Maritime Panel Computer

Nominal voltage : 24V DC

Compass safe distances :

Standard : 60 cm

Steering : 40 cm

## Place of Manufacture

Data Respons Norge AS

Industriveien 25

NO-2020 Skedsmokorset,

Norway

## Approval conditions

The Type Approval covers hardware listed under Product description. When the hardware is used in applications to be classed by DNV GL, 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 GL rules for classification of ships Pt.4 Ch.9 Control and monitoring systems.

### Product certificate

If specified in the Rules, ref. Pt.4 Ch.9 Sec.1, the control and monitoring system in which the above listed hardware is used shall be delivered with a product certificate. For each such delivery the certification test is to be performed at the manufacturer of the application system before the system is shipped to the yard. The test shall be done according to an approved test program. After certification the clause for software control will be put into force.

### Software control

All changes in software are to be recorded as long as the system is in use on board. Documentation of major changes is to be forwarded to DNV GL for evaluation and approval before implemented on board. Certification of modified functionality may be required for the particular vessel.

## Application/Limitation

Approval does not cover mounting brackets.

## Type Approval documentation

### 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); except acoustic noise (11.1)

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### **Marking of product**

Manufacture: Data Respons Norge AS

Model number: As listed under product description

Serial number: Unique for each delivered item

Power supply: 24V DC

Compass safe distance, when installed closer than 5m to a standard or steering compass.

### **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