

TYPE EXAMINATION CERTIFICATE

This is to certify:

That the Bridge instrumentation

with type designation(s)
Analog Interface Mk.2

Issued to

Alphatron Marine B.V.
Rotterdam Zuid-Holland, Netherlands

is found to comply with
DNV GL rules for classification – Ships

Application :

See page 2.

Temperature	B
Humidity	Required protection according to relevant rules shall be provided upon installation on board
Vibration	A
EMC	B
Enclosure	Required protection according to relevant rules shall be provided upon installation on board

Issued at **Høvik** on **2017-10-31**

This Certificate is valid until **2022-10-30**.

for **DNV GL**

DNV GL local station: **Rotterdam, Product
Certification /Verification**

Approval Engineer: **Frederik Tore Elter**

Jan Tore Grimsrud
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 Examination Certificate and not to the approval of equipment/systems installed.

Job Id: **262.1-020425-1**
Certificate No: **TAA00000BC**

Product description

Alphatron Analog Interface Mk.2, din rail mounted signal converter module providing serial data from an analog signal. One serial port output, Input 2x 0-20mA, +/- 5/10/20V or potentiometer input.

Type Designation	Part number	Location
Analog Interface Mk.2.	3109.0192	Protected

Application/Limitation

- Analog Interface Mk.2 is to be installed in accordance with makers documentation.
- To be in accordance with certification the Analog Interface Mk.2 is to be installed in enclosure as specified by the manufacturer.
- This certificate covers hardware, environmental and EMC approval of listed components. When applicable see to separate certification for specific display applications, functions and interfaces.

Type Examination documentation

Tests carried out

- Environmental testing: IEC60945(2002)
- Environmental testing: DNVGL-CG-0339 - Environmental test specification for instrumentation and automation equipment

Marking of product

The Manufacturer and Type Designation to be applied to the equipment in a clearly visible location. In addition the equipment shall be marked with serial number, safe distance to magnetic compass, power consumption and/or supply voltage.

Periodical assessment

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.

The scope of the periodical/renewal assessment is to verify that the production quality conditions stipulated for the type approval are complied with and that no alterations are made to the product design or its components and/or materials without appraisal by the Society.

END OF CERTIFICATE