

TYPE APPROVAL CERTIFICATE

This is to certify:**That the Revolution Monitoring System**

with type designation(s)

Rotation Monitor type 73RS series.

Issued to

**Applied Electronics Corporation
Kawasaki, Kanagawa, Japan**

is found to comply with

DNV GL rules for classification – Ships, offshore units, and high speed and light craft**Application :****Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV GL.****Location classes:****Temperature B****Humidity B****Vibration A****EMC A****Enclosure Required protection according to DNV GL Rules
shall be provided upon installation on board**Issued at **Høvik** on **2019-06-07**This Certificate is valid until **2024-06-30**.DNV GL local station: **Yokohama**for **DNV GL**Approval Engineer: **Nicolay Horn**

**Trond Sjøvåg
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.



Product description

Rotational Monitor 73RS series:

73RS-xyz

- x – Supply voltage: A - AC100-240V; D - DC24V
- y – Comparative output: Blank - No Comparative output; R - Comparative output
- z – Mark: M – for MET; Blank - Standard

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 Ships Pt.4 Ch.9 Control and Monitoring Systems.

Type Approval documentation

Tests carried out

Applicable tests according to Standard for Certification No. 2.4, April 2006.

Marking of product

The products to be marked with:

- model name
- manufacturer name
- serial number.

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 at least 2 and 3.5 year and at renewal of this certificate.

END OF CERTIFICATE