

TYPE APPROVAL CERTIFICATE

This is to certify:**That the Measurement Converter**with type designation(s)
SE-50

Issued to

Samhoi Industrial Co., Ltd.
Gimhae-si Gyeongsangnam-do, Republic of Koreais found to comply with
DNV GL rules for classification – Ships and offshore units**Application :****Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV GL.**

Temperature	C
Humidity	B
Vibration	B
EMC	B
Enclosure	B

This Certificate is valid until **2020-06-30**.Issued at **Busan** on **2015-07-01**for **DNV GL**DNV GL local station: **Gimhae MC & FIS**Approval Engineer: **Hee Jin Song**-----
Baeg Soon Choi
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

SE-50 is angle encoder.

- Supply Voltage: 24VDC
- Output signal: 1024 PPR (Pulse Per a Revolution)

Type Approval documentation Tests carried out

Applicable tests according to DNV GL Class Guideline 0339, November 2015.

Marking of product

The equipment shall be fitted with a rating plate giving information on manufacturer's name, type, current, voltage and power rating.

Periodical assessment

The scope of the retention/renewal survey is to verify that conditions stipulated for the type are complied with, and that no alternations are made to the product design or choice of system component and/or materials.

The main elements of the survey are:

- Ensure that type approved documentation is available
- Inspection of factory samples, selected at random from the production line (where applicable)
- Review of production and inspection routines, including test records from product sample tests and control routines
- Ensure that components and/or materials used comply with type approved documents
- Review of possible change in design of components, materials and/or performance, and make sure that such changes do not affect the type approval given.
- Ensure traceability between manufacturer's product type marking and type approval certificate

Retention survey is to be performed at least every second year.

END OF CERTIFICATE