DNV·GL

Certificate No:
TAA00000ZJ

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Automatic Telephone System

with type designation(s)
HX-72

Issued to
HANSHIN ELECTRONICS CO.,LTD.
Busan, Republic of Korea

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.

This Certificate is valid until **2021-12-31**.

Issued at **Busan** on **2016-12-30**
DNV GL local station: **Busan** for **DNV GL**

Approval Engineer: **So Ra Jeong**

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.

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Job Id:
Certificate No: **TAA00000ZJ**

Product description

Automatic telephone, HX-72, consists of following components:

Part Name	Description	Software	Location
HX-72	Auto exchanger, 70 extensions	KS18.xx	Protected
HS-70A/W	Telephone	-	
HAW-700-A/B/C		-	
HAF-800-A/D		-	
HRL-220A	Rotating Lamp	-	
HBE-024B	Bell	-	
HAH-050B	Headset with microphone	-	
HSR-032	Signal Relay Box	-	
HFC-041A	Connection Box	-	

Application/Limitation

- HX-72 shall be installed in accordance with Operation & Installation Manual.

Type Approval documentation

DNVGL No.	Document No.	Rev. No.	Title
11	E048R-032	-	Emission test report
12	E048R-033	-	Immunity test report
13	R10OR-004	-	Environmental test report
15	HS-TEX720-120122	1.0b	Performance test report
16	HS-TEX720-120117	1.0d	Operation & Installation Manual
17	HS-TEX720-111228	1.0b	Circuit drawing

Tests carried out

- Environmental test : IEC 60945 (2002)
- Performance test : DNV Type Approval Program no. 848.25

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