DNV·GL

Certificate No:
TAA00002CJ

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Automatic Telephone System

with type designation(s)
Auto telephone exchanger: KJ-1/2/3/4, Auto telephone KH-1SG, Auto telephone KH-1SQ, Auto telephone KH-1T/G, Auto telephone KH-1J, Auto telephone KH-2T/G, Auto telephone KH-2Q, Auto telephone KH-1SF, Explosion-proof telephone KH-1B

Issued to
Jiaxing Kexun Electron Co., Ltd.
Jiaxing, China

is found to comply with
DNV GL rules for classification – Ships
DNV GL statutory interpretations DNVGL-SI-0364 – SOLAS interpretations

Application :

Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV GL.

Type	Temperature	Humidity	Vibration	EMC	Enclosure
Auto telephone exchanger: KJ-1/2/3/4	**B**	**B**	**A**	**B**	**IP22**
Auto telephone KH-1SG	**B**	**B**	**A**	**B**	**IP44**
Auto telephone KH-1SQ	**B**	**B**	**A**	**B**	**IP20**
Auto telephone KH-1T/G	**B**	**B**	**A**	**B**	**IP20**
Auto telephone KH-1J	**B**	**B**	**A**	**B**	**IP44**
Auto telephone KH-2T/G	**B**	**B**	**A**	**B**	**IP20/IP44**
Auto telephone KH-2Q	**B**	**B**	**A**	**B**	**IP20**
Auto telephone KH-1SF	**B**	**B**	**A**	**B**	**IP56**
Explosion-proof telephone KH-1B	**B**	**B**	**A**	**B**	**IP44**

Issued at **Hamburg** on **2019-06-26**
This Certificate is valid until **2024-06-25**.
DNV GL local station: **Shanghai**

for **DNV GL**

Approval Engineer: **Marco Rinkel**

Joannis Papanuskas
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: **262.1-030300-1**
Certificate No: **TAA00002CJ**

Product description

Model	Description Qty.	Quantity	Protection class
KJ-1/2/3/4	Auto telephone exchanger	1	IP22
KH-1T/G	Auto telephone	1-X*	IP20
KH-2T/G	Auto telephone	1-X*	IP20/IP44
KH-2Q	Flush type auto telephone	1-X*	IP20
KH-1SG	Wall mount auto telephone	1-Y*	IP44
KH-1SQ	Flush type auto telephone	1-Z*	IP20
KH-1SF	Weatherproof auto telephone	1-A*	IP56
KH-1J	Noise-proof auto telephone	1-B*	IP44
KH-1B	Exprosion-proof key telephone	1-C*	IP44
AQ-1	Safety barrier	1-C*	IP44

Note: X*, Y*, Z*, A*, B*, C*, means the quantity as required, but sum of X*, Y*, Z*, A*, B*, C* must be less than system max. lines(for KJ-1 auto telephone exchanger, max. lines are 24; for KJ-2 auto telephone exchanger, max. lines are 48; for KJ-3 auto telephone exchanger, max. lines are 128;for KJ-4 auto telephone exchanger, max, line are more than 128)

Application/Limitation

Compass safe distances:

	Standard	Steering
KH-1T/G	205 cm	140 cm
KH-2Q	210 cm	125 cm
KH-1SQ	165 cm	105 cm
All others	500 cm	500 cm

Ex-certification is not covered by this certificate. Application in hazardous area to be approved in each case according to the Rules and Ex-Certification/ Special Condition for Safe Use listed in valid Excertificate issued by a notified/recognized Certification Body.

Type Approval documentation

Tests carried out

Applicable tests according to class guideline DNVGL-CG-0339, November 2016. and IEC 60945 (2002)

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