



Certificate no.:
TAA00003NS

TYPE APPROVAL CERTIFICATE

This is to certify:

that the **Hands Free Voice Talk Back System**

with type designation(s)
K21 Talk back system

issued to

Jiaxing Kexun Electron Co., Ltd.
Jiaxing, China

is found to comply with

DNV 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.

Type	Temperature	Humidity	Vibration	EMC	Enclosure
K21 Talk back system					
K2101	D	B	A	B	A
K2102	D	B	A	B	C
K2111Ex	D	B	A	B	C
K2112Ex	D	B	A	B	C
HTD-1	D	B	A	B	A
SCHT-1S	D	B	A	B	C
OSD-6	D	B	A	B	C
K2121	D	B	A	B	A
FSX-4N	D	B	A	B	B

Issued at **Høvik** on **2025-08-21**

This Certificate is valid until **2030-08-20**.

for **DNV**

DNV local unit: **Shanghai**

Approval Engineer: **Tommi Juhani Rifaat**

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.

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV AS, its parent companies and their subsidiaries as well as their officers, directors and employees ("DNV") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to USD 300 000.

Product description

The K21 Talk back system consists of the following components:

No.	Model	Description	Remark	IP
1	K2101n	Talk back Station	Power Supply: 220V AC or 24VDC	IP56 (front); IP22
2	K2102n	Talk back Station	Power Supply: 220V AC or 24VDC	IP56
3	K2111Exn	Explosion-proof talk back station	Power Supply: 220V AC or 24VDC	IP66
4	K2112Exn	Explosion-proof talk back station	Power Supply: 220V AC or 24VDC	IP66
5	HTD-1	Gooseneck microphone	Accessory	IP4X
6	SCHT-1S	Handheld microphone	Accessory	IP56
7	OSD-6	Headset	Accessory	IP56
8	K2121	Power supply unit	Accessory	IP2X
9	FSX-4N	Weatherproof box	Accessory	IP44

Note: n=A or C. The power supply for A: 220V AC; The power supply for C: 24DC

Application/Limitation

- The system shall be installed in accordance with the operation & installation manual

Type Approval documentation

DNV No	Drw No	Rev	Title
17	KX05B-000SM	0.0	Manual: Jiaxing, K21 Talk back system Instructions
16	KX05B-000TR	0.0	Report: Jiaxing, Talk Back System Performance Test Report
13	JECZ S202503142		Report: No.36, DNV-CG-0339 & IEC 60945 Environmental and EMC testing
12			Doc: Jiaxing, Waiver of Salt Mist test K2121 Power supply unit
11	A21-007-WT		Report: Sitias, DNV-CG-0039 section 3.16.1 Test Report
5	KX05B-004FK	0.0	Drawing: Jiaxing, K2112Ex Ex.Talk back station
4	KX05B-001FK	0.0	Drawing: Jiaxing, K2111Ex Ex.Talk back station
3	KX05B-009FK	0.0	Drawing: Jiaxing, K2102 Talk back station
2	KX05B-008FK	0.0	Drawing: Jiaxing, K2101 Talk back station

Tests carried out

- Performance Test: DNV Type approval Program No.848.26
- Environmental Test: DNV Class Guideline DNV-CG-0339 (2021)

Marking of product

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



Job ID: **262.1-042656-1**
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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.

This certificate is only valid if required periodical assessments are carried out with satisfactory results. To check the validity of this certificate, please look it up in <https://approvalfinder.dnv.com>

Manufactured by:

Jiaxing Kexun Electron Co.,Ltd, 478 Xinnong Road, Xiuzhou District, Jiaxing 314001 - China