DNV·GL

Certificate No:
TAA000021X

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Hands Free Voice Talk Back System

with type designation(s)
CIS3100 Command Intercom System

Issued to
Jotron A.S.
TJODALYNG, Norway

is found to comply with
DNV GL rules for classification – Ships, offshore units, and high speed and light craft
IMO Res. A.694(17) General requirements for shipborne radio equipment forming part of the global maritime distress and safety system (GMDSS) and for electronic navigational aids

Application :

See page 2

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

Issued at **Høvik** on **2018-10-23**
This Certificate is valid until **2023-10-22**.
DNV GL local station: **Sandefjord**

Approval Engineer: **Steinar Kristensen**

for **DNV GL**

Jan Tore Grimsrud
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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Product description

Phontech CIS 3100 Command Intercom System, consisting of the following modules[1)]:

Equipment type	Description	Module	Env.
Call stations	Master Station, console mounted, 15 lines, 4 remote lines	3130	Protected
	Master Station, console mounted, 5 lines	3100	
	Master Station, console mounted, 10 lines	3101	
	Master Station, console mounted, 20 lines	3102	
	Remote Master Station, console mounted, 15 lines, 4 remote lines	3132	
Substations	Bridge Wing Unit, with microphone contact and loudspeaker connection	0013	Protected
	Indoor unit, 2 way speaker, calling signal and PTT, wall mounted	9001	
	Substation, for headset with relay and calling signal lamp	9003	
	Call Unit, for connection to 2 way speaker	9004	
	Call Unit, with connector for module 0010 Portable Talk Back unit	9009	
	Bridge Wing Unit, with microphone contact and loudspeaker connection	9013	
	Substation, for loudspeaker with relay and headset connection	9016	
	Substation, 2 way speaker and PTT, wall mounted	9052	
	Engine Control Room Telephone with relay, console mounted	9135	
	Emergency PA Unit	6216	
Accessories	Portable Talk-back Unit w/10m cable	0010	Protected
	Plugbox	9011	
	Loudspeaker	HP-10	
	Strobe Light/Beacon/Sounder	AL-100x	
	Rotating Light/Beacon	EHS-24x	Exposed
	Mounting cabinet	PLM32	

[1)] Actual installation may vary based on requirements for individual installations. Only modules listed in certificate are approved for installation.

Application/Limitation

- Master- and Remote stations are to be connected to an external dimmer for control of illumination/backlight.
- CIS3100 is limited to installations where direct paging between substations is not required. All pagings originating from substations will be received at Master and/or remote station.
- CIS3100 supports priority of paging, Master stations have priority over Remote stations.
- CIS3100 is limited to single paging at a time. Master may include all remote- and sub-stations in the same paging.
- CIS3100 may be applied as basic PA-system for smaller vessels by paging of substations with loudspeakers. Mutiple subsations may be gouped into one zone on channels 12-15 on Master Station 3130 and 3102.
- Paging initiated from Emrgency PA unit 6216 will override other activity in the system, and may control relay for muting of external GA.

Job Id: **262.1-024741-1**
Certificate No: **TAA000021X**

Type Approval documentation

DNVGL No.	Doc. ref.	Rev.	Description
1	CIS3130 System	01	Drawing: Jotron, CIS3130 system, DNVGL Type Approval Test Setup
3	E17039.00	2017-12-15	Report: Nemko, Environmental test report for Phontech 0013, 9001, 9009, 9011, 9013, 9016 and 9135
4	E17158.00	2017-08-29	Report: Nemko, Environmental test report for Phontech 6216 PA Microphone
5	08300-007-DE	02	Manual: Jotron, Documentation handbook for CIS 3100/3101/3102 Command Intercom Systems
6	08300-008-DE	03	Manual: Jotron, Documentation handbook for CIS 3130 Command Intercom System
8	TAA00001DC	2018-03-05	Certificate: DNVGL, Type Approval certificate for Phontech 6200 series automatic telephone system
9	2009-3311	1	Report: DNV, EMC and environmental test report for CIS 3130 Command Intercom System
10	2002-3157	1	Report: DNV, EMC test report for CIS 3000 Command Intercom System
22	TAA00001DC	2018-03-05	Certificate: Jotron, TA-certificate for Phontech 6200-series Automatic Telephone System
27	2018.1019	A	Report: Jotron, Performance Test Report for CIS3100 talk back system

Tests carried out

- Environmental testing: IEC 60945 (2002)
- Performance testing: Functional tests according to DNVGL Type Approval programme 848.26

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, reference to Type Approval certificate, 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.