EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Certificate no.:
MEDB0000C7E
Revision no.:
0

Application of: Directive 2014/90/EU of 23 July 2014 on marine equipment (MED), issued as “Forskrift om Skipsutstyr” by the Norwegian Maritime Authority. This Certificate is issued by DNV AS under the authority of the Government of Norway.

This is to certify:

that the **Public Address and General Alarm Systems (PAGA): - control and distribution system**

with type designation(s)
PRAESENSA

issued to
Electro Voice Dynacord B.V.
Achtseweg Zuid 173 5651 GW Eindhoven Netherlands

is found to comply with the Implementing Regulation **(EU) 2025/1533** for
Item no. **MED/1.44a** (Row **2 of 2**)
according to the following requirements:
SOLAS 74 Reg. II-2/12, SOLAS 74 Reg. II-2/21, SOLAS 74 Reg. II-2/22, SOLAS 74 Reg. III/6, IMO Res. A.1021(26) 5, IMO Res. MSC.48(66)-(LSA Code) VII, IMO Res. MSC.302(87), IMO MSC.1/Circ.808, IMO MSC.1/Circ.1369/Add.1, SOLAS 74 Reg. III/4,SOLAS 74 Reg. X/3,IMO Res.MSC.36(63)-(1994 HSC Code) 4,IMO Res.MSC.36(63)-(1994 HSC Code) 8,IMO Res.MSC.97(73)-(2000 HSC Code) 4,IMO Res.MSC.97(73)-(2000 HSC Code) 8.

Further details of the equipment and conditions for certification are given overleaf.

Date of issue: **2026-06-26**

Expiry date: **2031-06-25**

for **DNV AS**

DNV local unit:
Netherlands CMC

Approval Engineer:
Steinar Kristensen

Notified Body no.: **0575**

Christine Mydlak-Röder
Head of Notified Body

NORWEGIAN ACCREDITATION PROD 019

The mark of conformity may only be affixed to the above type approved equipment and a Manufacturer’s Declaration of Conformity issued when the production-surveillance module (D, E or F) of Annex B of the MED is fully complied with and controlled by a written inspection agreement with a Notified Body. The product liability rests with the manufacturer or his representative in accordance with Directive 2014/90/EU.
This certificate is valid for equipment, which is conform to the approved type. The manufacturer shall inform DNV AS of any changes to the approved equipment. This certificate remains valid unless suspended, withdrawn, recalled or cancelled.
Should the specified regulations or standards be amended during the validity of this certificate, the product is to be re-approved before being placed on board a vessel to which the amended regulations or standards apply.

Product description

The Praesensa Public Address and General Alarm can be provided in different configurations for the functions of General Alarm (GA) and Public Address (PA) for the below types of installations:

Vessel Type	System Type
Cargo	GA, PA, PA/ GA
Passenger	GA, PA, PA/ GA
Passenger SRtP	GA, PA, PA/ GA

The Praesensa Public Address and General Alarm System consists of the following equipment *):

EQUIPMENT TYPE	DESCRIPTION	TYPE NO.
Central Equipment	System Controller Large	PRA-SCL
	System Controller Small	PRA-SCS
	Amplifier, 600W, 8 Channels	PRA-AD608
	Amplifier, 600W, 4 Channels	PRA-AD604
	Multifunction Power Supply Large	PRA-MPS3
	End-of-Line device	PRA-EOL
	Audio Interface Module	PRA-IM2A2
	Control Interface Module	PRA-IM16C8
Network Equipment	Ethernet switch	PRA-ES8P2S
	Power supply module, 48V	PRA-PSM48
	Fiber Transceiver Module, Multimode	PRA-SFPSX
	Fiber Transceiver Module, Single Mode	PRA-SFPLX
Call Stations	Call Station Desktop	PRA-CSLD
	Call Station Wallmount	PRA-CSLW
	Call Station Extension	PRA-CSE
GA pushbutton **)	Push Button with illumination	PRA-CSMEDB
Software	Praesensa Software version SW 2.XX	-

*) Actual configuration may vary based on requirements for individual installations.
**) Alternative GA pushbuttons meeting the specifications in section 5.1 of the “Marine Equipment Directive instructions, doc. no F.01U.431.776” may be applied.

Application/Limitation

1. The Praesensa system is to be installed according to the manufacturer’s instructions, including instructions for Marine Equipment Directive.
2. Call Stations which are not used for emergency PA activation shall have a lower priority than GA.
3. Call Stations with functions for activation of Emergency PA and GA are to be installed in locations with access control.
4. The GA activation points shall be installed using dedicated GA pushbuttons. Activation of GA shall not be enabled on the Call Stations.
5. Call Stations on the bridge shall be illuminated by an external, dimmable light source.
6. Call Stations with functions for activation of Emergency PA and GA shall be provided with means to avoid unintended use, e.g. cover for protection of keys. Keys shall be clearly labelled.
7. When used as combined PA/GA system, a minimum two independent speaker loops are required.
8. Interconnection to other IP network/LAN and use of Open Interface is subject to separate case-by-case approval.
9. The Praesensa supports use of the Open Interface network protocol for initiation of PA from external equipment if set up according to instructions in the manual “PRAESENSA Public Address and Voice Alarm System, Marine Equipment Directive instructions”, Document ID: F.01U.431.776, V01 or later. Emergency PA shall not be available via the Open Interface.

Type Examination documentation

Tests carried out

•	Environmental testing:	IEC 60945 (2002) incl. Corr.1(2008)
•	Performance testing:	EN 50695 (2021)
•	Interface testing:	IEC 61162-1 (2016), IEC 61162-1 (2024) and IEC 61162-450 (2018)
•	Presentation of information:	IEC 62288 (2021)
•	Bridge Alert Management	IEC 62923-1 (2018) and IEC 62923-2 (2018)

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.