

EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Certificate no.:
MEDB00008NW

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):- Speakers**

with type designation(s)

DSP-15 T-MED, DSP-15-54 T-MED, DST-100-MED, HP-10 T-MED, HP-10-54 T-MED, HP-15 T-MED, HP-20 T-MED, HP30 T-MED, HP-6 CT-MED, HPS-6 CT-MED

issued to

**DNH A/S Den Norske Høytalerfabrikk A/S
KRAGERØ, Norway**

is found to comply with the requirements in the following Regulations/Standards:

Regulation (EU) 2023/1667,

item No. MED/1.44b. SOLAS 1974 as amended, Regulation II-2/12,21,22, III/4, 6 & X/3, LSA Code VII, HSC Code 4,8, IMO MSC.1/Circ. 808, 1369/Add.1

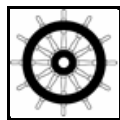
Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2029-02-07**.

Issued at **Høvik** on **2024-02-08**

DNV local unit:
East & South Norway CMC

Approval Engineer:
Steinar Kristensen



Notified Body
No.: **0575**

for **DNV AS**

Mydlak-Röder, Christine
Head of Notified Body



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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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.

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 300,000 USD.



Product description

The DSP-15 T-MED, DSP-15-54 T-MED, DST-100-MED, HP-10 T-MED, HP-10-54 T-MED, HP-15 T-MED, HP-20 T-MED, HP30 T-MED, HP-6 CT-MED and HPS-6 CT-MED are horn speakers intended for sounding of Public Address or General Emergency Alarm.

Unit	Description	Rated voltage (V)	Max power (W)	Location
DSP-15 T-MED	Plastic horn speaker with bracket mounting	70/100	15	Exposed
DSP-15-54 T-MED	Plastic horn speaker with bracket mounting	70/100	15	Exposed
DST-100-MED	Driver unit for use with DH-50 or DH-30 flare	50/70/100	100	Exposed
HP-10 T-MED	Plastic horn speaker with bracket mounting	70/100	10	Exposed
HP-10-54 T-MED	Plastic horn speaker with bracket mounting	70/100	10	Exposed
HP-15 T-MED	Plastic horn speaker with bracket mounting	70/100	15	Exposed
HP-20 T-MED	Plastic horn speaker with bracket mounting	70/100	20	Exposed
HP-30T-MED	Plastic horn speaker with bracket mounting	70/100	30	Exposed
HP-6 CT-MED	Plastic horn speaker with bracket mounting	70/100	6	Exposed
HPS-6 CT-MED	Plastic horn speaker for recessed surface mounting	70/100	6	Exposed

Application/Limitation

The speakers are to be installed according to instructions in technical documentation.

Type Examination documentation

DNV No	Document ID	Rev	Description
38	DTS-100-MED	2024-02-08	Manual: DNH, Manual and specifications for DST-100-MED
37	13824-1S	0	Report: Labtest Certification Inc, Environmental test report for DST-100
36	HP-10 T-MED	2024-01-11	Manual: DNH, Manual and specifications for HP-10 T-MED
35	HP-6CT-MED	2024-01-11	Manual: DNH, Manual and specifications for HP-6CT-MED
34	DSP-15-54T-MED	2024-01-11	Manual: DNH, Manual and specifications for DSP-15-54T-MED
33	DSP-15 T-MED	2024-01-11	Manual: DNH, Manual and specifications for DSP-15 T-MED
32	HPS-6CT-MED	2024-01-11	Manual: DNH, Manual and specifications for HPS-6CT-MED
31	HP-30 T-MED	2024-01-11	Manual: DNH, Manual and specifications for HP-30 T-MED
30	HP-20 T-MED	2024-01-11	Manual: DNH, Manual and specifications for HP-20 T-MED
29	HP-15 T-MED	2024-01-11	Manual: DNH, Manual and specifications for HP-15 T-MED
28	HP-10-54T-MED	2024-01-26	Manual: DNH, Manual and specifications for HP-10-54T-MED
26	200112102/C2/02	2001-07-13	Report: Nemko, Dry heat test report for HP-6CT (HPS-6CT)
25	200112102/C1/02	2001-09-05	Report: Nemko, Low temperature test report for HP-6CT (HPS-6CT) horn speaker
21	200112102-C5-02	2001-07-13	Report: Nemko, Corrosion test report for HP-6 CT (HPS-6CT) horn speaker
20	200112102/C3/02		Report: Nemko, Damp heat cyclic test report for HP-6CT (HPS-6CT) horn speaker
15	200112102/C1/01	2001-07-13	Report: Nemko, Low temperature test report for HP-20 horn speaker
14	200112105	2001-08-21	Report: Nemko, Vibration test report for HP-20T horn speaker
13	200112102/C5/01	2001-07-13	Report: Nemko, Corrosion test report for HP-20T horn speaker
12	200112102/C3/01	2001-07-13	Report: Nemko, Damp heat cyclic test report for HP-20T horn speaker
11	200112102/C2/01	2001-07-13	Report: Nemko, Dry heat test report for HP-20T horn speaker
9	1005/BA/14	2015-01-20	Report: CNBOP-PIB, Environmental test report for HP-10-54T horn speaker
2	1006-BA-14	2015-01-09	Report: CNBOP-PIB, Environmental test report for DSP-15-54 horn speaker

Tests carried out

- Environmental testing: IEC 60945 (2002) incl. Corr.1 (2008)
- Performance testing: EN 50695 (2021)



Job ID: **344.1-012982-1**
Certificate no.: **MEDB00008NW**

Marking of product

The type designation and name and contact address of the manufacturer shall be affixed visibly, legibly and indelibly to the product. In addition the product shall be marked with serial number, safe distance to magnetic compass, power consumption and/or supply voltage.