

[1]

EU-TYPE EXAMINATION CERTIFICATE

[2] Product Intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU

[3] EU-Type Examination Certificate Number: **Presafe 18 ATEX 13498X** **Issue 2**

[4] Product: **Loudspeaker**

[5] Manufacturer: **DNH AS**

[6] Address: **Gruveveien 4
3770 Kragerø
Norway**

[7] This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

[8] DNV Product Assurance AS, notified body number 2460, in accordance with Article 17 and Article 21 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres, given in Annex II to the Directive.

The examination and test results are recorded in confidential reports listed in item 16.

[9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with: **EN IEC 60079-0:2018, EN 60079-1: 2014, EN 60079-7: 2015/A1: 2018, EN 60079-18: 2015/A1: 2017 and EN 60079-31: 2014**

Where additional criteria beyond those given here have been used, they are listed at item 18 in the Schedule.

[10] If the sign "X" is placed after the certificate number, it indicates that the product is subject to the Specific Conditions of Use specified in the schedule to this certificate.

[11] This EU-TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified product in accordance to the Directive 2014/34/EU. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.

[12] The marking of the product shall include the following:

 **II 2G Ex db eb mb IIB+H₂ T4 Gb**

 **II 2G Ex db eb mb IIC T4 Gb**

 **II 2D Ex tb IIIC T105°C Db**



Date of issue:
2021-07-07



Bjørn Spongsveen
For DNV Product Assurance AS
The Certificate has been digitally signed.
See www.dnv.com/digitalsignatures for info



[13] **Schedule**

[14] **EU-Type Examination Certificate No:** Presafe 18 ATEX 13498X **Issue 2**

[15] **Description of Product**

This Certificate covers a loudspeaker. T in the designation indicates design with transformer. For IIC sintered metal of stainless steel, type SIKA-R 200 is used. For IIB +H2 sintered metal of bronze, type SIKA-B 200 is used.

Type designation

Type	Marking	Ambient temperature	Freq. range
DSP-15EExmN(T)	 II 2G Ex db eb mb IIB+H ₂ /IIC T4 Gb II 2D Ex tb IIIC T105°C Db	-50°C ≤ Ta ≤ +60°C	150 – 20000Hz
DSP-15EExmNM(T)	 II 2G Ex db eb mb IIB+H ₂ /IIC T4 Gb II 2D Ex tb IIIC T105°C Db	-50°C ≤ Ta ≤ +60°C	150 – 20000Hz

Electrical Data

Current, max.: 0,25A **Voltage, max.:** 100V

Variants:

- «MF» in type designation indicates encapsulated e-chamber and permanently connected cable.
- «L» in type designation indicates long flare.

Degrees of protection (IP Code)

IP66 and IP67 (for e-chamber) according to IEC 60529 Edition 2.1.

Ambient temperature:

-50°C ≤ Ta ≤ +60°C

Routine tests

Visual inspection according to EN 60079-18 clause 9.1
Dielectric strength test according to EN 60079-18 clause 9.2

[16] **Report No.:** PRJN-260162-2021-PA-NOR

[17] **Specific Conditions of Use**

- The Loudspeaker shall only be installed in areas where there is a low risk of impact.

Notes for manufacture, installation and operation:

- When the bracket of the loudspeaker is mounted onto the construction, the bracket must be connected to earth potential through the construction.

[18] **Essential Health and Safety Requirements**

Met by compliance with the requirements mentioned in item 9.

[19] **Drawings and documents**

Number	Title	Rev.	Date
1188-A4-G	LMC170 Variant beskrivelser	G	04.05.2015
2205	DSP-15EEx-m- model/T Gas group: IIB+H2 or IIC	9	25.06.2021
2205-A3	DSP-15EExmN/T DSP-15EExmNM/ T	8	30.08.2016

[20] **Certificate History**

Issue	Description	Issue date	Report no.
0	Original issue (Replaces Nemko 09ATEX1322X)	2018-11-13	D0001761
1	Update to the latest edition of standards. LH3 variants removed.	2021-03-12	PRJN-220294-2021-PA-NOR
2	Update due to minor document changes, added optional circuit diagram and back lid marking.	2021-07-07	PRJN-260162-2021-PA-NOR

END OF CERTIFICATE

