

EU-Type Examination Certificate

- [2] EQUIPMENT OR PROTECTIVE SYSTEM INTENDED FOR USE IN POTENTIALLY EXPLOSIVE ATMOSPHERES DIRECTIVE 2014/34/EU
- [3] EU-Type Examination Certificate Number: Presafe 18 ATEX 13498X Issue 0
- [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 GL Presafe AS, notified body number 2460, in accordance with Article 17 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 section 16.
- [9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with: EN 60079-0: 2012/A11:2013, EN 60079-1: 2014, EN 60079-7: 2015, EN 60079-18: 2015 and EN 60079-31: 2014
- [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. 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:

⊕x	II 2G	Ex db eb mb IIB+H ₂ /IIC T4 Gb
	II 2D	Ex tb IIIC T105°C
⊕x	II 2G	Ex db eb mb IIB+H ₂ /IIC T4 Gb
	II 2D	Ex tb IIIC T105°C



Date of issue:
2018-11-13



Asle Kaastad
For DNV GL Presafe AS
The Certificate has been digitally signed.
See www.presafe.com/digital_signatures for more info

This certificate may only be reproduced in its entirety and without any change, schedule included.

[13]





Schedule

[14] EU-TYPE EXAMINATION CERTIFICATE No.: Presafe 18 ATEX 13498X Issue 0

[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 d e mb IIB+H ₂ /IICT4 Gb II 2D Ex tb IIIC T105°C	-50°C ≤ Ta ≤ +60°C	150 – 20000Hz
DSP-15EExmNM(T)	 II 2G Ex d e mb IIB+H ₂ /IICT4 Gb II 2D Ex tb IIIC T105°C	-50°C ≤ Ta ≤ +60°C	150 – 20000Hz
LH3-UC25XS and LH3-UC25XL	 II 2G Ex d e mb IIB+H ₂ T4 Gb II 2D Ex tb IIIC T105°C	-50°C ≤ Ta ≤ +60°C	150 – 20000Hz
LH3-UC25XS-1 and LH3-UC25XL-1	 II 2G Ex d e mb IICT4 Gb II 2D Ex tb IIIC T105°C	-50°C ≤ Ta ≤ +60°C	150 – 20000Hz

Electrical Data

Current, max.: 0,25A

Variants: 1. With encapsulated e-chamber and permanently connected cable.
2. «L» in type designation indicates long flare.

The variants (LH3-UC25XS/-1 and LH3-UC25XL/-1) are limited to the following:

- 100V trafo
- S: Short flare
- L: Long flare
- Alternative power tapings from transformer

Two additional wires from secondary side of transformer for impedance measurement when it is not operational

Degrees of protection (IP Code)

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

Ambient temperature:

$-50^{\circ}\text{C} \leq T_a \leq +60^{\circ}\text{C}$

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.:** D0001761 rev.03

[17] **Specific Conditions of Use**

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

Essential Health and Safety Requirements (EHSRs) are covered by the standards listed at item 9

[19] **Drawings and documents**

Number	Title	Rev.	Date
1188-A4-G	LMC170 Variant beskrivelser	G	04.05.2015
2205-A3	*DSP-15Ex-m- model/T Gas group: IIB+H2 or IIC	7	06.11.2018
2205-A3	*DSP-15ExmN/T DSP-15ExmNM/ T	8	30.08.2016
2739A	DSP-15 : LH3-UC25XS, LH3-UC25XL	2	06.11.2018
2739B	DSP-15 : LH3-UC25XS, LH3-UC25XL	2	06.11.2018

[20] **Certificate History**

Issue	Description	Issue date	Report no.
0	Original issue (Replaces Nemko 09ATEX1322X)	2018-11-13	D0001761

END OF CERTIFICATE