

# [1] EC-TYPE EXAMINATION CERTIFICATE

[2] Equipment or Protected System Intended for use  
in Potentially explosive atmospheres  
Directive 94/9/EC

[3] EC-Type Examination Certificate Number: **Nemko 09ATEX 1322X** **Issue 4**

[4] Equipment or Protective System: **Loudspeaker**  
[5] Applicant/ Manufacturer: **DNH AS**  
[6] Address: **Gruveveien 2/6**  
**3770 Kragerø**  
**Norway**

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

[8] Nemko AS, notified body number 0470 in accordance with Article 9 of Council Directive 94/9/EC of 23 March 1994, certifies that this equipment or protective system has been found to comply with the Essential Health and Safety requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres given in Annex II to the Directive.



The examination and test results are recorded in confidential report no. 231606

[9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with:  
EN 60079-0: 2009, EN 60079-1: 2007, EN 60079-7: 2007, EN 60079-18: 2009 and EN 60079-31: 2009.

[10] If the sign "X" is placed after the certificate number, it indicates that the equipment or protective system is subject to special conditions for safe use specified in the schedule to this certificate.

[11] This EC-TYPE EXAMINATION CERTIFICATE relates only to the design, examination and tests of the specified equipment or protective system in accordance to the directive 94/9/EC.  
Further requirements of the Directive apply to the manufacturing process and supply of this equipment or protective system. These are not covered by this certificate.

[12] The marking of the equipment or protective system shall include the following:

For DSP-15EExmNs (T) and DSP-15EExmNmS (T)		II 2G II 2D	Ex d e mb IIB+H2/II C T4 Gb Ex tb IIIC T127°C	-50°C ≤ Ta ≤ +40°C
For DSP-15EExmN (T) and DSP-15EExmNm (T)		II 2G II 2D	Ex d e mb IIB+H2/II C T4 Gb Ex tb IIIC T105°C	-50°C ≤ Ta ≤ +50°C

Oslo, 2013-06-19



**Asle Kaastad**  
Certification Manager , Ex-products

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### [13] Schedule

#### [14] EC-TYPE EXAMINATION CERTIFICATE No **Nemko 09ATEX1322X** Issue 4

#### [15] Description of Equipment or Protective System

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 Designations / Technical data

Type	Marking	Ambient temperature	Freq. range
DSP-15EExmNs(T)	 II 2G Ex d e mb IIB+H2/IIC T4 Gb II 2D Ex tb IIIC T127°C	-50°C ≤ Ta ≤ +40°C	220 – 20000Hz
DSP-15EExmNmS(T)	 II 2G Ex d e mb IIB+H2/IIC T4 Gb II 2D Ex tb IIIC T127°C	-50°C ≤ Ta ≤ +40°C	220 – 20000Hz
DSP-15EExmN(T)	 II 2G Ex d e mb IIB+H2/IIC T4 Gb II 2D Ex tb IIIC T105°C	-50°C ≤ Ta ≤ +50°C	150 – 20000Hz
DSP-15EExmNm(T)	 II 2G Ex d e mb IIB+H2/IIC T4 Gb II 2D Ex tb IIIC T105°C	-50°C ≤ Ta ≤ +50°C	150 – 20000Hz

**Voltage:** 100V.

**Current, max.:** 0,25A

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

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

#### [16] Report No. 231606

##### Descriptive Documents

Name/Number	Rev.	Date	Title/Description	Sheets/Pages
2205-A3 (Partlist)	3	04.06.2013	DSP-15EExmN (T) DSP-15EExmNm (T)	1
2206-A3 (Partlist)	3	04.06.2013	DSP-15EExmNs (T) DSP-15EExmNmS (T)	1
2205-A3 (Drawing)	3	03.06.2013	DSP-15EEx m- model / T Gas group: IIB+H2 or IIC	1
2206-A3 (Drawing)	3	03.06.2013	DSP-15EEx s- model / T Gas group: IIB+H2 or IIC	1
1188-A4-F	F	18.10.2010	LMC170 Variant beskrivelser	1
2587-A4	-	01.08.2012	DSP-15EExm....models	1

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**Certificate History and Associated Nemko Reports**

Issue	Date	Report	Description
0	2010.10.19	136857	Prime Certificate released.
1	2011-01-17	165713	Ingress protection implemented in the certificate.
2	2011-10-06	188675	The descriptive documents are updated to include IECEx components and standards.
3	2012-08-06	203277	Conditions of the certificate were introduced and therefore an "X" suffix was added to the certificate number.
4	2013-06-19	231606	Removal of specific condition for wiring of transformer T-48. Two new 128°C thermal cutoff are provided.

**[17] Special Conditions for Safe Use**

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

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

See item 9

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