



# IECEX Certificate of Conformity

## INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit [www.iecex.com](http://www.iecex.com)

Certificate No.: **IECEX NEM 11.0015** issue No.:1  
Status: **Current**  
Date of Issue: **2013-04-19** Page 1 of 4

Certificate history:  
Issue No. 1 (2013-4-19)  
Issue No. 0 (2011-6-6)

Applicant: **DNH AS**  
Grueveien 2-6  
3770 Kragerø  
Norway

Electrical Apparatus: **Loudspeaker**  
Optional accessory:

Type of Protection: **d e mb**

Marking: **Ex d e mb IIB+H2/IIC T5 Gb -53°C ≤ Ta ≤ +55°C**  
**Ex d e mb IIB+H2/IIC T5 Gb -53°C ≤ Ta ≤ +55°C**

Approved for issue on behalf of the IECEx  
Certification Body:

Arne Hortman

Position:

Certification Manager, Ex-products

Signature:  
(for printed version)

Date:

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting the Official IECEx Website.

Certificate issued by:

**NEMKO**  
Gautstadalleen 30  
Oslo N-0314  
Norway





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Manufacturer: **DNH AS**  
Grueveien 2-6  
3770 Kragerø  
Norway

Additional Manufacturing location(s):

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEX Quality system requirements. This certificate is granted subject to the conditions as set out in IECEX Scheme Rules, IECEX 02 and Operational Documents as amended.

#### STANDARDS:

The electrical apparatus and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards:

- IEC 60079-0 : 2007-10** Explosive atmospheres - Part 0: Equipment - General requirements  
Edition: 5
- IEC 60079-1 : 2007-04** Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"  
Edition: 6
- IEC 60079-18 : 2009** Explosive atmospheres Part 18: Equipment protection by encapsulation "m"  
Edition: 3
- IEC 60079-7 : 2006-07** Explosive atmospheres - Part 7: Equipment protection by increased safety "e"  
Edition: 4

*This Certificate **does not** indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed above.*

#### TEST & ASSESSMENT REPORTS:

*A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in*

Test Report:  
NO/NEM/ExTR11.0011/00

NO/NEM/ExTR11.0011/01

Quality Assessment Report:

NO/NEM/QAR08.0003/02



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## Schedule

### EQUIPMENT:

*Equipment and systems covered by this certificate are as follows:*

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 +H<sub>2</sub> sintered metal of bronze, type SIKA-B 200 is used.

### Ratings:

**Voltage:** 100V, **Current:** 250mA, **Power:** 25W, **Ingress Protection Code:** IP66

**Variants:** With encapsulated e-chamber and permanent cable (DSP-25EExmNMF(T).

With moulded Monitoring card (DSP-25EExmMN(T).

With alternative plastic enclosure the ambient temperature is:  $-20^{\circ}\text{C} \leq T_a \leq +40^{\circ}\text{C}$

**CONDITIONS OF CERTIFICATION: NO**



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## DETAILS OF CERTIFICATE CHANGES (for issues 1 and above):

Issue 1: Dust marking removed.