

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

Certificate No.:

IECEx NEM 05.0005X

issue No.:3

Status:

Current

Date of Issue:

2013-06-19

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Certificate history: Issue No. 3 (2013-6-19) Issue No. 2 (2012-8-6)

Issue No. 1 (2011-10-Issue No. 0 (2006-7-3)

Applicant:

DNH AS Gruveveien 4 N-3770 Kragerø

Norway

Electrical Apparatus:

Loudspeaker

Optional accessory:

Type of Protection:

d e mb tb

Marking:

DSP-15EExmNs(T): Ex d e mb IIB+H2/IIC T4 Gb, Ex tb IIIC T127°C, -50°C \leq Ta \leq +40°C,

DSP-15EExmNMs(T): Ex d e mb IIB+H2/IIC T4 Gb Ex tb IIIC T127°C, -50°C \leq Ta \leq +40°C DSP-15EExmN(T): Ex d e mb IIB+H2/IIC T4 Gb

Ex tb IIIC T105°C, -50°C ≤ Ta ≤ +50°C DSP-15EExmNM(T): Ex d e mb IIB+H2/IIC T4 Gb

Ex tb IIIC T105°C, -50°C \leq Ta \leq +50°C

Approved for issue on behalf of the IECEx

Certification Body:

Asle Kaastad

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 Gaustadelleen 30 Oslo N-0314 Norway





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Manufacturer:

DNH AS Gruveveien 2-6 N-3770 Kragerø Norway

Additional Manufacturing location

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 60079-31: 2008

Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure 't'

Edition: 1

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

IECEx ATR:

NO/NEM/05/63165 NO/NEM/ExTR11.0028/00 NO/NEM/ExTR11.0028/02 File Reference:

63165 188675 231606



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

Loudspeaker with or without transformer. T in the type designation indicates design with transformer. Terminal and transformer in Ex e-enclosure. Transformer may be encapsulated in Ex e-enclosure.

Flameproof enclosure has sinter metal in sound opening and cemented joints.

The loudspeaker has sintered metal of bronze for use in gas group IIB + H2 or alternatively stainless steel for use in gas group IIC. Voltage:100V.

Current, max.:0,25A

Variants: With encapsulated e-chamber and permanently connected cable. Ingress protection: IP66 and IP67 according to IEC 60529 Edition 2.1.

CONDITIONS OF CERTIFICATION: YES as shown below:

Scedule of limitations

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



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EQUIPMENT(continued):

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



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

Issue 1: Update	to new standards an	d minor changes in th	e descriptive docum	ents
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Issue 2: Conditions of the certificate were introduced and therefore an "X" suffix was added to the certificate number.

Issue No. 3: Removal of specific condition for wiring of transformer T-48. Two new 128°C thermal cutoff are provided.