

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.:5	Certificate history: Issue No. 5 (2016-4-6)	
Status:	Current		Issue No. 4 (2015-7-2) Issue No. 3 (2013-6-19)	
Date of Issue:	2016-04-06	Page 1 of 5	Issue No. 2 (2012-8-6) Issue No. 1 (2011-10-	
			25) Issue No. 0 (2006-7-3)	
Applicant:	DNH AS Gruveveien 4 N-3770 Kragerø Norway			
Electrical Apparatus: Optional accessory:	Loudspeaker			
Type of Protection:	d e mb tb			
Marking:	Ex tb IIIC T105°C, -50°	x d e mb IIB+H2/IIC T4 Gb C ≤ Ta ≤ +60°C nb IIB+H2 T4 Gb C ≤ Ta ≤ +60°C ıb IIB+H2 T4 Gb		
Approved for issue on be Certification Body:	ehalf of the IECEx	Arne Hortman		
Position:		Certification Manager, Ex-product	S	
Signature:				
(for printed version)		Anatorman		
Date:		2016-04-06		
 This certificate and schedule may only be reproduced in full. This certificate is not transferable and remains the property of the issuing body. 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	5	N	

	IECEx Certificate of Conformity		
Certificate No.:	IECEx NEM 05.0005X		
Date of Issue:	2016-04-06	Issue No.: 5	
		Page 2 of 5	
Manufacturer:	DNH AS Gruveveien 2-6 N-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 producovered 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 Docume as amended.

STANDARDS:

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

IEC 60079-0 : 2011 Edition: 6.0	Explosive atmospheres - Part 0: General requirements
IEC 60079-1 : 2014-06 Edition: 7.0	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
IEC 60079-18 : 2009 Edition: 3	Explosive atmospheres Part 18: Equipment protection by encapsulation "m"
IEC 60079-31 : 2008 Edition: 1	Explosive atmospheres – Part 31: Equipment dust ignition protection by enclosure 't'
IEC 60079-7 : 2006-07 Edition: 4	Explosive atmospheres - Part 7: Equipment protection by increased safety "e"

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:	File Reference:
NO/NEM/05/63165	63165
NO/NEM/ExTR11.0028/00	188675
NO/NEM/ExTR11.0028/05	231606

	IECEx Certificate of Conformity		
Certificate No .:	IECEx NEM 05.0005X		
Date of Issue:	2016-04-06	Issue No.: 5	
		Page 3 of 5	
	Schedule		
EQUIPMENT: Equipment and systems c	overed by this certificate are as follows:		
Loudspeaker with or without transformer. T in the type designation indicates design with transformer. Termina 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 Ingress protection: IP66 and IP67 according to IEC 60529 Edition 2.1. Variants: With encapsulated e-chamber and permanently connected cable. "L" in type designation indicates long flare The variants (LH3-UC25XS and LH3-UC25XL) are limited to the following: - Ex d e mb IIB+H2 T4 Gb and Ex tb IIIC T105°C - 100V trafo - S: Short flare - L: Long flare - Alternative power tappings from transformer - Two additional wires from secondary side of transformer for impedance measurement when it is not operational			
CONDITIONS OF CERTII	FICATION: YES as shown below:		
		ere is a low risk of impact. construction, the bracket must be connected to earth	



IECEx Certificate of Conformity

Certificate No.:

IECEx NEM 05.0005X

Date of Issue:

2016-04-06

Issue No.: 5

Page 4 of 5

EQUIPMENT(continued):

Туре	Marking	Amb. temp.	Freq. range
DSP-15EExmN(T)	Ex d e mb IIB+H2/IIC T4 Gb Ex tb IIIC T105°C	-50°C ≤ Ta ≤ +60°C	150-20000HZ
DSP-15EExmN(T)	Ex d e mb IIB+H2/IIC T4 Gb Ex tb IIIC T105°C	-50°C ≤ Ta ≤ +60°C	150-20000HZ
LH3-UC25XS	Ex d e mb IIB+H2 T4 Gb Ex tb IIIC T105°C	-50°C ≤ Ta ≤ +60°C	150-20000HZ
LH3-UC25XL	Ex d e mb IIB+H2 T4 Gb Ex tb IIIC T105°C	-50°C ≤ Ta ≤ +60°C	150-20000HZ



IECEx Certificate of Conformity

Certificate No .:

IECEx NEM 05.0005X

Date of Issue:

2016-04-06

Issue No.: 5

Page 5 of 5

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

Issue1. Ingress protection added Issue2. Update of documents and components. Issue3. Conditions "X" to certificate added. Issue4. Changes concerning transformer and thermal fuses. Issue5.This issue update is made due to inclusion of the alternative variants LH3-UC25XS and LH3-UC25XL.