



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 13.0032X Issue No: 0 Certificate history:
Issue No. 0 (2013-11-01)

Status: Current Page 1 of 4

Date of Issue: 2013-11-01

Applicant: **Ex-Tech SAS**
ZE Bandiat Tardoire, 16110 St. Project.
France

Electrical Apparatus: **Explosion-proof Sounder & Loud speaker**
Optional accessory:

Type of Protection: **Flameproof and dust ignition protection by enclosure**

Marking: Ex d IIC T4(Tamb=-40 ? ~+70 ?) /T5 (Tamb=-40 ? ~+60 ?) /T6 (Tamb=-40 ? ~+55 ?) Gb
Ex tb IIIC T135 ? (Tamb=-40 ? ~+70 ?) /T100 ? (Tamb=-40 ? ~+60 ?) /T85 ? (Tamb=-40 ? ~+55 ?)
IP66

Approved for issue on behalf of the IECEx
Certification Body:

Asle Kaastad

Position:

Certification Manager

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](http://www.iecex.com).

Certificate issued by:

NEMKO
Gaustadalleen 30
Oslo N-0314
Norway





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Manufacturer: **Ex-Tech SAS**
ZE Bandiat Tardoire, 16110 St. Projet.
France

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 : 2011 Edition:6.0	Explosive atmospheres - Part 0: General requirements
IEC 60079-1 : 2007-04 Edition:6	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
IEC 60079-31 : 2008 Edition:1	Explosive atmospheres – Part 31: Equipment dust ignition protection by enclosure 't'

*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:

[CN/CQM/ExTR13.0037/00](#)

[NO/NEM/ExTR13.0027/00](#)

Quality Assessment Report:

[NO/NEM/QAR13.0011/00](#)



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

There are three different materials of the enclosure of the product, SD-125 (stainless steel), SD-135 (aluminum alloy), SD-150 (GRP). The product is made up of; Main body, back-cover and front-cover, connected together by a spigot joint. Furthermore the product has a sounder driver which is screwed into the frontcover by an Ex thread. A sintered disc is press fitted into a slot of this and kept in place by a press fitted ring. In addition a horn arrangement is attached to the front cover.

Type Designations:

Type SD-125/135/150-1 with an build in amplifier PCB , function as an alarm sounder.

Type SD-125/135/150-2 with or without a build in audio transformer, function as loudspeaker.

Type SD-125/135/150-3 with build in audio transformer and amplifier PCB, function as sounder/loudspeaker.

There can be four optional sizes of cable entries (M20/M25 or 1/2NPT, 3/4NPT).

CONDITIONS OF CERTIFICATION: YES as shown below:

Repairs of the flameproof joints must be made in compliance with the structural specifications provided by the manufacturer. Repairs must not be made on the basis of values specified in tables 1 and 2 of EN/IEC 60079-1



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EQUIPMENT (continued):

Ambient temperature:

Product	Ambient temperature	Marking
SD 125 , SD 135 & SD 150	Tamb=-40°C~+70°C	Ex d IIC T4 Gb. Ex tb IIIC T135°C IP66.
	Tamb=-40°C~+60°C	Ex d IIC T5 Gb. Ex tb IIIC T100°C IP66.
	Tamb=-40°C~+55°C	Ex d IIC T6 Gb. Ex tb IIIC T85°C IP66.

Routine test

A routine pressure test according to EN 60079-1 clause 16 shall be carried out on all enclosures with the following pressures

For SD125: The pressure will be 1.2MPa,

For SD135: The pressure will be 1.3MPa

For SD150: The pressure will be 1.3MPa