



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 PRE 14.0029X Issue No: 1 Certificate history:
Status: **Current** Page 1 of 4 [Issue No. 1 \(2015-09-22\)](#)
Date of Issue: **2015-09-22** [Issue No. 0 \(2015-03-06\)](#)

Applicant: **Zenitel Norway AS**
Bromsveien 17,
N3138 Horten
Norway

Electrical Apparatus: **Ex Intercoms and Access Panel**
Optional accessory: Microphone, key switch and handset

Type of Protection: **Ex e ib m [ib]**

Marking: Ex e ib mb [ib] IIC T4 Gb
-20°C ≤ Ta ≤ +60°C

*Approved for issue on behalf of the IECEx
Certification Body:*

Bjørn Spongsveen

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](#).

Certificate issued by:

DNV Nemko Presafe AS
Gautadalleen 30
P.O.Box 73 Blindern
0314 Oslo
Norway





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Manufacturer: **Zenitel Norway AS**
Bromsveien 17,
N3138 Horten
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 : 2011 Edition:6.0	Explosive atmospheres - Part 0: General requirements
IEC 60079-11 : 2011 Edition:6.0	Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
IEC 60079-18 : 2009 Edition:3	Explosive atmospheres Part 18: Equipment protection by encapsulation "m"
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

Test Report:

[NO/PRE/ExTR14.0020/00](#) [NO/PRE/ExTR14.0020/01](#)

Quality Assessment Report:

[NO/NEM/QAR14.0005/00](#)



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

This certificate covers Zenitel Norway AS, wall mounted Turbine Ex Intercom station and Exigo industrial Ex access panel. The plastic enclosure of Intercoms and Access Panels has been tested for high risk of mechanical danger however the belonging cable glands are tested for low risk of mechanical danger and shall be protected against higher impact energy levels if used. The enclosure has a degree of protection of IP64 to the compartment where the electronic is mounted. That compartment includes terminals that meet the requirements of "Ex e" and the encapsulated main board with intrinsically safe outputs to the front board and accessories such as microphone and handset. These enclosures have a degree of protection of IP20.

Type Identification

Intercoms: TFIX-1, TFIX-2, TFIX-3, TFIX-4

Access Panels: EAPFX-1, EAPFX-6

Accessories: TAX-2B (Key Switch), TAX-3 (Handset) and EMMAX-1H (Microphone)

Electrical Data

Intercoms and Access Panels: 18-24VDC, 0.5A

Um: 250V (according to EN 60079-11)

Intrinsically safe connections for external accessories:

	Loudspeaker	Microphone	PTT	HOOK
Terminal:	1 (+) & 2 (-)	3 (+) & 4 (-)	5	6
Uo:	5,8V	5,8V	5,8V	5,8V
Io:	952mA	952mA	952mA	952mA
Po:	1,008W	1,008W	1,008W	1,008W
Co:	597nF	597nF	597nF	597nF
Lo:	40µH	40µH	40µH	40µH

The parameters above are a combination of all outputs connected together that can occur is separation distances in external accessories are below the limits in IEC 60079-11.

Other intrinsically safe external accessories than those certified with the call station and listed in this certificate may be used, so far as they are separately certified with input parameters corresponding to the above listed parameters for the call station. Cables of other accessories have to be suitable for the specific cable glands used for each cable.

Degrees of protection (IP Code)

IP64 for the Intercoms and Access Panels, according to IEC 60079-0 **List of Ex Components**

Routine Test

Routine test that shall be carried out by the manufacturer on all units:

- Visual inspection according to clause 9.1 of IEC 60079-18.

CONDITIONS OF CERTIFICATION: YES as shown below:

Belonging cable glands are tested for low risk of mechanical danger and shall be protected against higher impact energy levels if used. The cable glands shall be mounted according to the manufacturers instructions, additional clamping of the cable may be needed.

Other certified cable glands may be mounted and used according to the manufacturers instructions.



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

Issue 1. Minor changes of the design.