



IECEX Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: **IECEX DNV 21.0097X** Page 1 of 4 [Certificate history:](#)
Issue 0 (2022-01-21)

Status: **Current** Issue No: 1

Date of Issue: 2023-10-24

Applicant: **Zenitel Norway AS**
Bromsveien 17
3183 Horten
Norway

Equipment: **Intercoms and Access Panels, TFIX-1-V2, TFIX-2-V2, TFIX-3-V2, EAPFX-1-V2, EAPFX-6-V2, TAX-2B, TAX-3, EMMAX-1H**

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

Type of Protection: **Ex eb ib [ib] mb IIC T4 Gb**

Marking: Ex eb ib [ib] mb IIC T4 Gb -20°C ≤ Ta ≤ +55°C

Approved for issue on behalf of the IECEx
Certification Body:

Asle Kaastad

Position:

Certification Manager

Signature:
(for printed version)

Date:
(for printed version)

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 www.iecex.com or use of this QR Code.



Certificate issued by:

DNV Product Assurance AS
Veritasveien 1
1363 Høvik
Norway





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Manufacturer: **Zenitel Norway AS**
Bromsveien 17
N3138 Horten
Norway

Manufacturing
locations:

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 equipment 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 60079-0:2017](#) Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

[IEC 60079-11:2011](#) Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
Edition:6.0

[IEC 60079-18:2017](#) Explosive atmospheres - Part 18: Protection by encapsulation "m"
Edition:4.1

[IEC 60079-7:2017](#) Explosive atmospheres - Part 7: Equipment protection by increased safety "e"
Edition:5.1

This Certificate **does not** indicate compliance with 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 Reports:

[NO/DNV/ExTR21.0083/00](#)

[NO/DNV/ExTR21.0083/01](#)

Quality Assessment Report:

[NO/NEM/QAR14.0005/06](#)



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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 Ex access panel. 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, handset and headset. These enclosures have a degree of protection of IP20.

Type designations

Intercoms:

TFIX-1 Turbine Ex Intercom Station, Full Keypad
TFIX-2 Turbine Ex Intercom Station, 6 buttons
TFIX-3 Turbine Ex Intercom Station, 3 buttons

Access Panels:

EAPFX-1 Exigo Ex Access Panel, 1 button, Flowire
EAPFX-6 Exigo Ex Access Panel, 6 buttons, Flowire

Accessories included in the certificate:

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

The headset AK5850HS with ATEX certificate Nemko 03ATEX1351 has been assessed for use with TAX-2B and intercoms and access panels.

Further Information and Data in the Annex below

SPECIFIC CONDITIONS OF USE: YES as shown below:

1. The Intercom Station, access panel and belonging cable glands are tested for low risk of mechanical danger and shall be protected against higher impact energy levels if used.
2. The cable glands shall be mounted according to the manufacturer's instructions, additional clamping of the cable may be needed.
3. Other certified cable glands may be mounted and used according to the manufacturer's instructions.



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

Change of encapsulation compound material.

Annex:

[DNV 21.0097X IECEx Annex CoC_1.pdf](#)

Annex to Certificate: IECEx DNV 21.0097X

Electrical Data

Intercoms and Access Panels:

Power supply 24- 48 VDC SELV, 2 A
 Max load of external loudspeaker: 25 W for max 30 minutes.
 Max average load of external loudspeaker in service: 4 W
 Max ratings for connected signal beacon: 48 V, 320 mA.

Intrinsically safe parameters for connections for external accessories:

	Loudspeaker	Microphone	PTT	HOOK
Terminal:	1 (+) & 2 (-)	3 (+) & 4 (-)	5	6
Maximum output voltage, U_o :	5.8V	5.8V	5.8V	5.8V
Maximum output current, I_o :	952mA	952mA	952mA	952mA
Maximum output power, P_o :	1.008W	1.008W	1.008W	1.008W
Maximum external capacitance, C_o :	597nF	597nF	597nF	597nF
Maximum external inductance, L_o :	40μH	40μH	40μH	40μH

The parameters above are a combination of all outputs connected together that can occur if separation distances in external accessories are below the limits in EN 60079-11: 2012

Intrinsically safe parameters for connections for external push buttons:

Intrinsically Safe Parameters for Connections for External Push Buttons

	GPI1	GPI2
Terminal	13	15
Maximum output voltage, U_o	4.6V	4.6V
Maximum output current, I_o	21.2mA	21.2mA
Maximum output power, P_o	24.3 mW	24.3 mW
Maximum external capacitance, C_o	50uF	50uF
Maximum external inductance, L_o	100mH	100mH

L_o and C_o shall not be present at the same external circuit.

GPI1 and GPI2 are intended for simple apparatus with negligibly low C_i and L_i

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 must be suitable for the specific cable glands used for each cable.

List of Ex Components

IEC Standard	CENELEC Standard	Certificate	Ex component
IEC 60079-0:2017 and IEC 60079-1:2015 /A1:2018	EN 60079-0:2018 and EN 60079-1:2015/A1:2018	KEMA 01ATEX2130U and IECEX KEM 07.0019U	Phoenix Contact GmbH & Co. KG, MK3DSH 3/ 2-5,08 Ex, Terminal

DNV GL Presafe AS
Veritasveien 3
1363 Høvik
Norway



Annex to Certificate: IECEx DNV 21.0097X

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Degrees of protection (IP Code)

IP 64 according to EN 60529

Ambient temperature:

$-20^{\circ}\text{C} \leq T_a \leq +55^{\circ}\text{C}$