

[1]

EU-TYPE EXAMINATION CERTIFICATE

[2] Product Intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU

[3] EU-Type Examination Certificate Number: **DNV 21 ATEX 04699X** **Issue 1**

[4] Product: **Intercoms and Access Panels**

[5] Manufacturer: **Zenitel Norway AS**

[6] Address: **Bromsveien 17
3183 Horten
Norway**

[7] This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

[8] DNV Product Assurance AS, notified body number 2460, in accordance with Article 17 and Article 21 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres, given in Annex II to the Directive.

The examination and test results are recorded in confidential reports listed in item 16.

[9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with: **EN IEC 60079-0:2018, EN IEC 60079-7:2015/A1:2018, EN 60079-11: 2012 and EN 60079-18:2015/A1:2017**

Where additional criteria beyond those given here have been used, they are listed at item 18 in the Schedule.

[10] If the sign "X" is placed after the certificate number, it indicates that the product is subject to the Specific Conditions of Use specified in the schedule to this certificate.

[11] This EU-TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified product in accordance to the Directive 2014/34/EU. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.

[12] The marking of the product shall include the following:

 **II 2(2) G Ex eb ib mb [ib] IIC T4 Gb -20°C ≤ Ta ≤ +55°C**

Date of issue:
2022-01-26



Bjørn Spongsveen
For DNV Product Assurance AS
The Certificate has been digitally signed.
See www.dnv.com/digitalsignatures for info



[13] **Schedule**

[14] **EU-Type Examination Certificate No:** **DNV 21 ATEX 04699X** Issue 1

[15] **Description of Product**

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 designation

Intercoms:

TFIX-1-V2: Turbine Ex Intercom Station, Full Keypad

TFIX-2-V2: Turbine Ex Intercom Station, 6 buttons

TFIX-3-V2: Turbine Ex Intercom Station, 3 buttons

Access Panels:

EAPFX-1-V2: Exigo Ex Access Panel, 1 button, Flowire

EAPFX-6-V2: 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.

Electrical Data

Intercoms and Access Panels:

Power supply 24- 48 V DC SELV, 2 A

Max load of external loudspeakers: 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, Uo	4.6V	4.6V
Maximum output current, Io	21.2mA	21.2mA
Maximum output power, Po	24.3 mW	24.3 mW
Maximum external capacitance, Co	50uF	50uF
Maximum external inductance, Lo	100mH	100mH

Lo and Co shall not be present at the same external circuit.

GPI1 and GPI2 are intended for simple apparatus with negligibly low Ci and Li

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

Manufacturing locations.

Manufacturers Production address: Zenitel Norway AS Bromsveien 17 3183 Horten Norway	Manufacturers Production address: Fideltronik Poland Sp. z.o.o. Beniowskiego 1 34-200 Sucha Beskidzka POLAND
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Degrees of protection (IP Code)

IP64 for the Intercoms and Access Panels, according to EN 60079-0

Ambient temperature:

-20°C to +55°C

Routine tests.

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

Visual inspection according to clause 9.1 of EN 60079-18

Dielectric strength tests 500 V AC according to clause 9.2 EN IEC 60079-18

[16] **Report No.:** 312039

[17] **Specific Conditions of Use**

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 than supplied with the product may be mounted and used according to the manufacturer's instructions.

[18] **Essential Health and Safety Requirements**

Met by compliance with the requirements mentioned in item 9.

[19] **Drawings and documents**

Number	Title	Rev.	Date
10081231XX-DL	Descriptive documents TFIX-V2 and EAPFX-V2	2	13.01.2022

[20] **Certificate History**

Issue	Description	Issue date	Report no.
0	Presafe 14ATEX5209X	2015-03-06	D001008
1	Presafe 14 ATEX5209X	2015-09-22	D001008
0	Original issue	2022-01-07	312039
1	Minor document editorials.	2022-01-26	312039-01

END OF CERTIFICATE

