

EC-Type Examination Certificate

- [2] EQUIPMENT OR PROTECTIVE SYSTEM INTENDED FOR USE IN POTENTIALLY EXPLOSIVE ATMOSPHERES DIRECTIVE 94/9/EC
- [3] EC-Type Examination Certificate Number: Presafe 14 ATEX 5209X Issue 1
- [4] Equipment or Protective System: Intercoms and Access Panels
- [5] Applicant – Manufacturer or Authorized representative: Zenitel Norway AS
- [6] Address: Sandakerveien 24C
0403 Oslo
Norway
- [7] This equipment or protective system and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.
- [8] DNV Nemko Presafe AS, notified body number 2460 in accordance with Article 9 of Council Directive 94/9/EC of 23 March 1994, certifies that this equipment or protective system has been found to comply with the Essential Health and Safety requirements relating to the design and construction of equipment and protective systems 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 section 14.
- [9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with: EN 60079-0: 2012 and EN 60079-7: 2007 and EN 60079-11: 2012 and EN 60079-18: 2009
- [10] If the sign “X” is placed after the certificate number, it indicates that the equipment or protective system is subject to special conditions for safe use specified in the schedule to this certificate.
- [11] This EC-TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified equipment or protected system. If applicable, further requirements of this Directive apply to the manufacturer and supply of this equipment or protective system.
- [12] The marking of the equipment or protective system shall include the following:

 II 2(2) G Ex e ib mb [ib] IIC T4 Gb -20°C ≤ Ta ≤ +60°C

Bjørn Spongsveen
For DNV Nemko Presafe AS
Information on electronic signature www.presafe.com



Date of issue: 2015-09-22

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Schedule

[14] **EC-TYPE EXAMINATION CERTIFICATE No.:** Presafe 14 ATEX 5209X Issue 1

Certificate History

Issue	Description	Report no.	Issue date
0	Original issue	D0001008	2015-03-05
1	Minor changes of the design.	D0001008 Rev 1	2015-09-22

[15] Description of Equipment or Protective System

This certificate covers Zenitel Norway AS, wall mounted Turbine Ex Intercom station and Exigo 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, handset and headset. 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 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:

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
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.

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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 EN 60079-0

List of Ex Components

IEC Standard	CENELEC Standard	Certificate	Ex component
IEC 60079-0:2011 and IEC 60079-7:2006	EN 60079-0:2012 and EN 60079-7:2007	KEMA 01ATEX2130U and IECEX KEM 07.0019U	Phoenix Contact GmbH & Co. KG, MK3DSH 3/ 2-5,08 Ex, Terminal

Additional manufacturing locations.

Manufacturers Production address: Zenitel Norway AS Bromsveien 17 3194 Horten Norway	Manufacturers Production address: Fideltronik Poland Sp. z.o.o. Beniowskiego 1 34-200 Sucha Beskidzka POLAND
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[16] **Project No.:** D0001008

Descriptive Documents

Number	Title	Rev.	Date
FUS:2014-020	Ex Documentation List Turbine Intercoms and Exigo Access Panels	V.019	2015-09-04

Routine Test:

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

- Visual inspection according to clause 9.1 of EN 60079-18

[17] **Special Conditions for Safe Use**

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.

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

See part 9 of this certificate

END OF CERTIFICATE