

EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Certificate no.:
MEDB0000AWS
Revision no.:
0

Application of: Directive 2014/90/EU of 23 July 2014 on marine equipment (MED), issued as "Forskrift om Skipsutstyr" by the Norwegian Maritime Authority. This Certificate is issued by DNV AS under the authority of the Government of Norway.

This is to certify:

that the **Public Address and General Alarm Systems (PAGA): - control and distribution system**

with type designation(s)
Exigo

issued to

Zenitel Norway AS avd Horten
HORTEN, Norway

is found to comply with the Implementing Regulation (EU) 2025/1533 for
Item no. **MED/1.44a** (Row 2 of 2)

according to the following requirements:

SOLAS 74 Reg. II-2/12, SOLAS 74 Reg. II-2/21, SOLAS 74 Reg. II-2/22, SOLAS 74 Reg. III/6, IMO Res. A.1021(26) 5, IMO Res. MSC.48(66)-(LSA Code) VII, IMO Res. MSC.302(87), IMO MSC.1/Circ.808, IMO MSC.1/Circ.1369/Add.1, SOLAS 74 Reg. III/4, SOLAS 74 Reg. X/3, IMO Res. MSC.36(63)-(1994 HSC Code) 4, IMO Res. MSC.36(63)-(1994 HSC Code) 8, IMO Res. MSC.97(73)-(2000 HSC Code) 4, IMO Res. MSC.97(73)-(2000 HSC Code) 8.

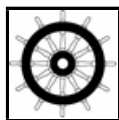
Further details of the equipment and conditions for certification are given overleaf.

Date of issue: **2025-10-17**

Expiry date: **2030-10-16**

DNV local unit:
Sandefjord

Approval Engineer:
Steinar Kristensen



Notified Body
no.: **0575**



for **DNV AS**

Digitally Signed By:

Christine Mydlak-Röder

Christine Mydlak-Röder

Head of Notified Body



The mark of conformity may only be affixed to the above type approved equipment and a Manufacturer's Declaration of Conformity issued when the production-surveillance module (D, E or F) of Annex B of the MED is fully complied with and controlled by a written inspection agreement with a Notified Body. The product liability rests with the manufacturer or his representative in accordance with Directive 2014/90/EU.

This certificate is valid for equipment, which is conform to the approved type. The manufacturer shall inform DNV AS of any changes to the approved equipment. This certificate remains valid unless suspended, withdrawn, recalled or cancelled.

Should the specified regulations or standards be amended during the validity of this certificate, the product is to be re-approved before being placed on board a vessel to which the amended regulations or standards apply.

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV AS, its parent companies and their subsidiaries as well as their officers, directors and employees ("DNV") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to USD 300 000.

Product description

Please see Appendix: Product Description

Application/Limitation

- The Exigo system shall operate on a dedicated IP network/LAN, consisting of components listed in this certificate. Interconnection to other networks is subject to separate case-by-case approval.
- Access panels with functions for activation of Emergency PA and GA are to be installed in locations with access control.
- Access panels with functions for activation of Emergency PA and GA shall be provided with means to avoid unintended use. This can be either cover for protection of keys, or keys shall be pressed for minimum 2 seconds to activate function. Keys shall be clearly labelled.
- When used as combined PA/GA system, minimum two independent speaker loops are required.
- Any Ex-equipment (equipment to be used in areas with explosive atmosphere) listed in this certificate are subject to separate Ex- approvals.

Type Examination documentation

Please see Appendix: Type Examination Documentation

Tests carried out

- | | |
|--------------------------------|---|
| • Environmental testing: | IEC 60945 (2002) incl. Corr.1 (2008) |
| • Performance testing: | EN 50695 (2021) |
| • Interface testing: | IEC 61162-1 (2024) |
| • Presentation of information: | IEC 62288 (2021) incl. A1 (2024) |
| • Bridge Alert Management: | IEC 62923-1 (2018) and IEC 62923-2 (2018) |

Marking of product

The type designation and name and contact address of the manufacturer shall be affixed visibly, legibly and indelibly to the product. In addition the equipment shall be marked with serial number, safe distance to magnetic compass, power consumption and/or supply voltage.

APPENDIX

Type Examination documentation

Certificate no.:
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Document No.	Rev.	Title
E19084.00	00	Report: Nemko, EMC test report for FCDC3
E19125.01	01	Report: Nemko, Environmental test report for FCDC3
E14083.00	00	Report: Nemko, EMC test report for IP-based Intercom and PA-panels
E14084.00	00	Report: Nemko, EMC and environmental test report for TFIX-X intercom and EAPFX-X Ex access panels
DANAK-19/14910	2015-01-13	Report: DELTA, EMC and environmental test report for networking equipment
20146	1	Report: Applicia, EMC and environmental test report for EXIGO PA/GA system
21399	0	Report: Applicia, Vibration test report for IP-LCM IP Line Connection Module
21456	0	Report: Applicia, EMC and environmental testing of ICX500 VS Server
31446-1	0	Report: Applicia, EMC-testing of SPA-V2 system
31446-2	0	Report: Applicia, Environmental testing of SPA-V2 system (incl. PSP-1 and SPA-EE4-V2 excessive conditions)
31446-3	0	Report: Applicia, EMC testing of Power Surveillance Panel (PSP-1)
31446-4	0	Report: Applicia, Environmental test report for Power Surveillance Panel (PSP-1)
P21-0145	2022-01-31	Report: EKTOS, EMC and environmental test report for Zenitel C1000 + Firewall system
E21182.00	00	Report: Nemko, EMC test report for Turbine Ex intercom stations TFIX-1-V2, TFIX-2-V2 and TFIX-3-V2, and Exigo Ex Access Panels EAPFX-1-V2 and EAPFX-6-V2
20047	0	Report: Applicia, Environmental test report for Turbine Compact intercom station
A100K11471	1.2	Manual: Zenitel, Exico PA/GA System User Manual
E21021.00	00	Report: Nemko, EMC and environmental test report for ENA2200-AC2 and ENA2400-AC2
A100K11460	1.8	Manual: Zenitel, Exigo Technical Manual
22332-10	2021-11-11	Report: Professional Testing (EMI), Inc, EMC test report for Cisco IE-3x00 Catalyst Industrial Ethernet Switch Series
21585-10/30	2021-12-15	Report: Professional Testing (EMI), Cisco IE-3x00 Environmental and EMC Test Report
EDCS-22688037	2021-11-02	Report: Cisco, Vibration test report for Cisco IE-3x00 Series switches
REP094442-B	2025-06-20	Report: Nemko, IEC 60945 test report for LAN system consisting of four Cisco Catalyst 1300 switches with SFP's
2007-3218	01	Report: DNV, EMC and environmental test report for MPA1600 incl MPA 1670 Amplifier
2007-3256	01	Report: DNV, EMC and environmental test report for MPA1600 incl MPA 1670 Amplifier (selected tests)
E13192.00	2013-08-23	Report: Nemko, EMC test report for Flowire - FCDC1
E14145.00	2014-06-06	Report: Nemko, Environmental test report for Flowire- FCDC1

31844	0	Report Applica: Environmental testing of EPIPR-6 PoE-Injector
31845	0	Report Applica: Environmental testing of Wago 787-1633, Wago-1606 and Wago 787-980
TAA00002YC	2	Certificate: DNV, Type Approval certificate for WAGO DC Power supplies
A100K12319	V0.3	Report: Zenitel, EN 50695 (2021) Performance test report Exigo MED
A100K12320	V0.3	Report: Zenitel, EN 61162-1 (2024) test report for Exigo-MED
A100K12321	V0.3	Report: Zenitel, IEC 62288 (2021) test report Exigo-MED
A100K12322	V0.3	Report: Zenitel, IEC 62923-1/2 (2018) test report for Exigo-MED

APPENDIX

Product Description

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The Exigo Public Address and General Alarm system can be provided in different configurations for the functions of General Alarm (GA) and Public Address (PA) for the below types of installations:

Vessel Type	System Type		
Cargo	GA	PA	PA/ GA
Passenger	GA	PA	PA/ GA
Passenger SRtP	GA	PA	PA/ GA

Exigo Public Address and General Alarm System comprises the following modules ¹⁾:

Equipment type	Description	Module	Article no.	SW	Env.
Central equipment	Exigo System Controller	ESC1	102 3000 000	SSC: 6.5.3.x	Protected
	Processor for ECS1/ Primary System Controller (PSC)	ICX-500	100 2000 100	PSC: 1.7.3.x	
	Exigo Network Amplifier AC, 2x100W	ENA2100-AC	102 3102 100	6.5.3.x	
	Exigo Network Amplifier AC, 2x100W	ENA2100-AC2	102 3102 110	6.5.3.x	
	Exigo Network Amplifier AC, 2x200W	ENA2200-AC2	1023102210	6.5.3.x	
	Exigo Network Amplifier AC, 2x400W	ENA2400-AC2	1023102420	6.5.3.x	
	Power Amplifier, 1x400W, 48VDC	P-1670-Basic	234 0100 002	6.5.3.x	
	Power Amplifier, 1x400W, 48VDC, incl. Line Card	P-1670-Line	234 0100 003	6.5.3.x	
	IP Line Connection Module	IP-LCM-A	1008095201	6.5.3.x	
	SPA-EE4-V2 CAM interface module	SPA-EE4-V2	2340120030	N/A	
	SPA-EE4-V2, 1U ICX rack shelf incl. SPA-EE4-V2 & connector	EE4-RS2	1000602	N/A	
	Wago Power supply 100-240VAC/24VDC 2A	787-1606	2990000063	N/A	
	Wago Power supply 100-240VAC/48VDC 5A	787-1633	2990000066	N/A	
Network Equipment	Wago AC Filter, DIN, 1 Phase, max. 250VAC/10A	787-980	1015818	N/A	Protected
	Flowire - Ethernet Converter, DC Voltage	FCDC3	100 8080 310	NA	
	Exigo Power Injector, 6 Ports	EPIPR-6	102 3697 006	NA	
	Cisco C1000 Ethernet switch 24port	C1000-24-FP-4G-L/IEC60945	2220012094	NA	
	Cisco C1000 Ethernet switch 48port	C1000-48-P-4G-L/IEC60945	2220012099	NA	
	Cisco Firepower 1010 NGFW	FPR1010-NGFW-K9/IEC60945	2220012662	NA	
	Cisco IE3200 8-port GE MARINE approved Switch	IE-3200-8T2S-E	2220012262	N/A	
	Cisco IE3200 8-port GE PoE+ MARINE approved Switch	IE-3200-8P2S-E	2220012263	N/A	
	Cisco IE3400 8-port GE MARINE approved Switch	IE-3400-8T2S-E	2220012264	N/A	
	Cisco IE3400 8-port GE PoE+ MARINE approved Switch	IE-3400-8P2S-E	2220012265	N/A	
	Cisco 16-port GE RJ45 Expansion Module for IE3400	IEM-3300-16T	2220012269	N/A	
	Cisco 16-port GE RJ45 PoE+ Expansion Module for IE3400	IEM-3300-16P	2220012270	N/A	
	Cisco C1300 8-port 1G PoE switch with 2x1G Combo	C1300-8FP-2G	2220012283	N/A	
	Cisco C1300 24-port 10G SFP+ switch with 2x10GE	C1300-24XS	2220012285	N/A	

¹⁾ Actual configuration may vary based on requirements for individual installations.

Equipment type	Description	Module	Article no.	SW	Env.
Network Equipment	Cisco C1300 24-port 1G PoE switch with 4x1G SFP	C1300-24FP-4G	2220012273	N/A	Protected
	Cisco C1300 48-port 1G Full PoE switch with 4x1G SFP	C1300-48FP-4G	2220012275	N/A	
	CISCO 1000BASE-SX SFP transceiver module for MultiMode fiber	GLC-SX-MMD	2220012150	N/A	
	GLC-LH-SMD 1000BASE-LX/LH SFP transceiver module for SMF	GLC-LH-SMD	2220012152	N/A	
	Cisco GLC-TE 1000BASE-T 1G SFP Transceiver - RJ45	GLC-TE	2220012164	N/A	
	SFP 1000BASE-T 1G RJ-45 for Copper Network	SFP-GB-GE-T	2220012167	N/A	
	SFP 1000BASE-LH 1G SMD	SFP1G-LX-31	2220012168	N/A	
	SFP 1000BASE-SX 1G MMF	SFP1G-SX-85	2220012169	N/A	
	AC filter, 1-phase, 3A, 250VAC	LAN-FLT	2810060003	N/A	

Equipment type	Description	Module	Article no.	SW	Env.
Access Panels	Exigo Call Panel, PTT Button, Pluggable Microphone, Ethernet	ECPIR-P	102 3200 030	6.5.3.x	Protected
	Exigo Call Panel, PTT Button, Plug. Microphone, Ethernet, Blue Call	ECPIR-P	1000663	6.5.3.x	Protected
	Exigo Call Panel, PTT + 3 Buttons, Pluggable Microphone, Ethernet	ECPIR-3P	102 3200 033	6.5.3.x	Protected
	Exigo Call Panel, PTT + 3 Buttons, Plug. Mic, Ethernet, Blue Call	ECPIR-3P	1000664	6.5.3.x	Protected
	Exigo Call Panel, PTT + 3 Buttons, Plug. Mic, Ethernet, Blue	ECPIR-3P-B	1000665	6.5.3.x	Protected
	Exigo Alarm Panel, 8 Buttons, Ethernet	EAPIR-8	102 3201 008	6.5.3.x	Protected
	Exigo Alarm Panel, 8 Buttons, Ethernet, Blue Call	EAPIR-8	1000662	6.5.3.x	Protected
	Exigo Button Expansion Module, 8 Buttons	EBMDR-8	102 3253 008	6.5.3.x	Protected
	Exigo Button Expansion Module, 8 Buttons, Blue	EBMDR-8-B	1000670	6.5.3.x	Protected
	Exigo Industrial Access Panel, 1 Button, Ethernet	EAPII-1	102 3201 201	6.5.3.x	Exposed
	Exigo Industrial Access Panel, 6 Buttons, Ethernet	EAPII-6	102 3201 206	6.5.3.x	Exposed
	Exigo Industrial Ex Access Panel, 1 Button	EAPFX-1-V2	1023221611	6.5.3.x	Exposed
	Exigo Industrial Ex Access Panel, 6 Button	EAPFX-6-V2	1023221616	6.5.3.x	Exposed
	Power Surveillance Panel	PSP-1	2340110032	N/A	Protected
Microphones	Gooseneck Microphone	MB-30G	3005020033	NA	Protected
	Handheld Microphone for ECPIR Indoor Access Panels	PAM1H	1023533012	N/A	Protected
	Exigo Handheld Industrial Microphone, Compact	EMMAI-2H	102 3533 312	NA	Exposed
	Exigo Handheld Industrial Ex Microphone, 1 Button	EMMAX-1H	102 3533 511	NA	Exposed
Accessories	Turbine Kit IP Extended	TKIE-1	100 8132 010	6.5.3.x	Protected
	Turbine Kit IP Extended	TKIE-2	100 8132 020	6.5.3.x	Protected
	Audio Intercom Kit	TKIS-2	1008131020	6.5.3.x	Protected
	Connection board with relays for Turbine/Exigo Industrial	TA-10	1008140100	N/A	Protected
Volume Controllers	Volume Controller, 1x15W with 4-wire Override, Flush Mount	VM15-R	300 5010 210	NA	Protected
	Volume Controller, 1x50W with 4-wire Override, Flush Mount	VM50-R	300 5010 213	NA	
	Volume Controller, 2x15W Dual with Failsafe Override Relay, Flush Mount	VM15-RDF	300 5010 212	NA	
	Volume Controller, 2x50W Dual with Failsafe Override Relay, Flush Mount	VM50-RDF	300 5010 215	NA	
	Volume Controller, 1x15W Dual with 4-wire Override, Flush Mount	VM15-RD	300 5010 211	NA	
	Volume Controller, 2x50W Dual with 4-wire Override, Flush Mount	VM50-RD	300 5010 214	NA	
Volume Controllers	Volume Controller, 15W with 24VDC Override, Flush Mount	VCOR-15	2131000401	NA	Protected



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Equipment type	Description	Module	Article no.	SW	Env.
	Volume Controller, 15W with 24VDC Failsafe Override Relay, Flush Mount	VCOR-15F	2131000403	NA	
	Volume Controller, 60W with 24VDC Override, Flush Mount	VCOR-60	2131000402	NA	
	Volume Controller, 60W with 24VDC Failsafe Override Relay, Flush Mount	VCOR-60F	2131000404	NA	