

TYPE APPROVAL CERTIFICATE

Certificate No: **TAA00000ZN**Revision No: **7**

This is to certify:

That the Automatic Telephone, Public Address, General Alarm and Handsfree Voice Talkback System

with type designation(s) **VINGTOR ACM**

Issued to

Zenitel Norway AS avd Horten HORTEN, Norway

is found to comply with

DNV rules for classification - Ships

IMO Res. A.694(17) General requirements for shipborne radio equipment forming part of the global maritime distress and safety system (GMDSS) and for electronic navigational aids

IMO A.1021(26) Code on alerts and indicators (2009)

LSA Code VII 7.2 IMO MSC Circ 808

Application :	
See page 2	

Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV.

Issued at Høvik on 2023-10-27		
This Certificate is valid until 2025-08-15 . DNV local unit: Sandefjord	for DNV	
Approval Engineer: Steinar Kristensen	Frederik Tore Elter Head of Section	

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This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid. The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.



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Product description

Vingtor ACM Automatic Telephone, Handsfree Two-Way Voice Communication, Public Address and General alarm system, consisting of the below equipment ¹⁾:

The VINGTOR ACM family includes the following main system racks, to be installed in a protected environment:

Intercom exchange	Order number	Software version	Notes
AlphaCom XE7	ACM-M-D-V2	Version 13.1.3.x	
AlphaCom XE7	ACM-M-A-V2	Version 13.1.3.x	Same as ACM-M-D, but only equipped with line cards for analogue telephones and PA call stations
AlphaCom XE20	ACM-48-V10	Version 13.1.3.x	
AlphaCom XE26	ACM-144-V10	Version 13.1.3.x	
AlphaCom XE26	AACM-144-V10	Version 13.1.3.x	Same as ACM-144-V10 and with extra power supply and terminal board
ICX-500 Intelligent Communication Gateway	1002000100	Version 1.2.3.x	24VDC input power
ICX-510 Intelligent Communication Gateway	1002000200	Version 1.2.3.x	24VDC input power

ACM Field Equipment

Equipment type	Model	Environment
Flush (console) mount intercom, PA Call Station/Talk Back Station	CRM-V	Protected 2)
	CRM-V-2	
Handset units for flush mount intercom	CRM-V-HS	Protected 2)
Gooseneck unit for flush mount intercom	CRM-V-GN	Protected 2)
Direct access key panel for flush mount intercom	CRM-V-DAK48	Protected
Headset solution for flush intercom	CRM-VH	Protected 2)
Handheld microphone	EMMAR-1H	Protected 2)
Wall mount intercom, Talk Back Stations	VMP-503	Exposed
	VMP-530	Exposed
Handset units for wall mount intercom	VMP-211	Exposed
	VMP-250	Exposed
Headset units for wall mount intercom	VMP-36-PEL-Ad	Exposed
	VMP-36-PELP-Ad	Exposed
Throat microphone for headset	AK6070T	Exposed
Portable intercom units	VMP-503PA	Exposed
	VMP-503PA/15	Exposed
Handheld microphones	P-66-VMP	Exposed
	P-66-VMP/10	Exposed
	P-66-VMP/25	Exposed
Desktop intercom	1008001000	Protected 2)
	1008001100	Protected 2)
	VMP-D619	Protected
	VMP-619	Protected
	IPDMH-V2	Protected 2)
	IPDMHB-V2	Protected 2)
Desktop analogue telephone	DT-800M	Protected
VAF-1 Flush (console) mount analogue telephone, PA Call Station	VAF-1	Protected
Wall mount analogue telephone	HSB-03	Exposed

¹⁾ Actual configuration may vary based on requirements for individual installations. Only modules listed in certificate are approved for installation.

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²⁾ Main station and station accessories supporting IC-Edge mode without Alphacom exchange.



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odel	Environment
S-3	Exposed
S-3WT	Exposed
MT7-A	Exposed
ISP-09	Exposed
ISP-01	Exposed
.24	Exposed
.24ID	Exposed
24H	Exposed
P-15EExmN	Exposed 3)
1L-1520	Exposed 3)
AS-x	Exposed
IS-x	Exposed 3)
IE-x	Exposed 3)
IX- <i>x</i> -V2	Exposed 3)
IE-TD	Exposed
:P-TD6	Protected
IS-x	Protected 3)
IE-x	Protected 3)
-10	Protected 3) 4)
-22b	Exposed 3)
DC1	Protected 3)
DC2	Protected 3)
DC3	Protected 3)
wire 120	Protected 3) 4)
	Protected 3) 4)
wire Ex 120	Protected 3) 4)
wire Ex 250	Protected 3) 4)
-23	Exposed 3)
MAI-2H	Exposed 3)
MAX-1H	Exposed 3)
5850xx	Exposed 3)
X-2b	Exposed 3)
X-3	Exposed 3)
	Protected
	Exposed
	Exposed
	Exposed
SII-10H	Protected 3)
211-10H	FIOLECTED 5
- V M M M M M M M M M M M M M M M M M M	S-3 S-3WT MT7-A SP-09 SP-01 24 24ID 22H P-15EExmN IL-1520 AS-x IS-x IS-x IE-x IX-x-V2 IE-TD P-TD6 IS-x IE-x -10 -22b DC1 DC2 DC3 wire 120 wire 250 wire 250 wire Ex 120 wire Ex 120 wire Ex 250 -23 IMAI-2H IMAX-1H 5850xx X-2b X-3 -200T S-15T/F S-30T/F P-15EExmNT

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³⁾ Main station and station accessories supporting IC-Edge mode without Alphacom exchange ⁴⁾ May be used in an exposed environment when mounted in TFIE intercom stations or EAPII access panels.



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Equipment type	Model	Environment
Volume Controller, 15W with 24VDC Override, Flush Mount	VCOR-15	Protected
Volume Controller, 15W with 24VDC Failsafe Override Relay, Flush	VCOR-15F	Protected
Mount		
Volume Controller, 60W with 24VDC Override, Flush Mount	VCOR-60	Protected
Volume Controller, 60W with 24VDC Failsafe Override Relay, Flush	VCOR-60F	Protected
Mount		
Signal unit/lamp	EHS-24x	Exposed
·	EHS-220x	Exposed
	EHS-110x	Exposed
	BLK5-24x	Exposed
	BLK5-230x	Exposed
Note: The use of "x" in Model identifies color variants of the products.	BLK5-115x	Exposed
	PD2100AC	Exposed
Signal unit/buzzer	A-100	Exposed
	A-100AC	Exposed
	HB-105	Exposed
	HB-90	Exposed
Signal unit/lamp and buzzer	SON-16 <i>X-X</i>	Exposed
Note: The use of "X" in Model identifies variants of the products, e.g.	AL-100X	Exposed
different colours and supply voltages. X can be more than one	AL-105X	Exposed
digit/character.		
Watertight relay box	CRB-7	Exposed
	IRR-3	Exposed
Watertight connection box	CD-4	Exposed
-	CD-7-VMP	Exposed
	SB01	Exposed
Indoor connection boxes	PT-625A	Protected
	1009800100	Protected

Equipment type		Model	Environment
Access Panels	Exigo Call Panel, PTT Button, Pluggable	ECPIR-P	Protected
	Microphone, Ethernet		
	Exigo Call Panel, PTT + 3 Buttons, Pluggable	ECPIR-3P	Protected
	Microphone, Ethernet		
	Exigo Alarm Panel, 8 Buttons, Ethernet	EAPIR-8	Protected
Exigo Button Expansion Module, 8 Buttons		EBMDR-8	Protected
	Exigo Industrial Access Panel, 1 Button, Ethernet	EAPII-1	Exposed
	Exigo Industrial Access Panel, 6 Buttons, Ethernet	EAPII-6	Exposed
	Exigo Industrial Ex Access Panel, 1 Button,	EAPFX-1-V2	Exposed
	Flowire		
	Exigo Industrial Ex Access Panel, 6 Buttons,	EAPFX-6-V2	Exposed
	Flowire		

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Equipment type		Model	Environment
Mounting cabinet		PLM-32	Exposed
		PLM-43	Exposed
		PLM-54	Exposed
		76R1005	Exposed
		76R1007	Exposed
		WCAB-1005	Exposed
		WCAB-1010	Exposed
Network Equipment	Data switch kit with power line filter	C1000-24FP-4G- L/IEC60945 C1000-48P-4G-	Protected Protected
		L/IEC60945	
	Data switch	DNV6250-P24-EU	Protected
		DNV6250-P48-EU	Protected
	Data switch for DIN rail mounting	eCON2050BA	Protected
		eCON3080BTA	Protected
		EDS-405A	Protected
		EDS-P510	Protected
		IE-2000 series	Protected
		IE-4000 series	Protected
	IP over two-wire switch	NV-PL-08-F	Protected
	TP OVER TWO-WIFE SWITCH	NV-PL-06-F NV-PL-024-F ⁵⁾	
			Protected
		NV-PL-048-F ⁵⁾	Protected
		NV-PLLK	Protected
	Firewall	FPR1010-NGFW- K9/IEC60945	Protected
	Fibre interface	GLC-SX-MMD	Protected
		J4858C	Protected
	Injector sets	INJKIT-NOP	Protected
	,	INJKIT-PSU	Protected
	FXS gateway	FXS-GW-24P	Protected
UHF	Portable two-way radios MotoTrbo DP4XXXe for	DP4400e	Portable
.	UHF on-board	DP4401e	Portable
	O. I. O. Soa. a	DP4401 Ex	Portable
		DP4600e	Portable
		DP4601e	Portable
		DP4800e	Portable
		DP4801e	Portable
		DP4801 Ex	Portable
	Mobile two-way radios MotoTrbo DM4XXXe for	DM4400e	Protected
	UHF on-board	DM4401e	Protected
		DM4600e	Protected
	Destable two ways of Por Mark T. 1. 27	DM4601e	Protected
	Portable two-way radios MotoTrbo R7 series for	MotoTrbo R7 FKP	Portable
	UHF on-board	Premium	Dentalli
		MotoTrbo R7 FKP Capable	Portable
		MotoTrbo R7 NKP	Portable
		Premium	i oriable
		MotoTrbo R7 NKP	Portable
			FUITABLE
		Capable	Portoble
	MateTike OI DEEOO Description III III	MotoTrbo R7a	Protected
	MotoTrbo SLR5500 Repeater for UHF on-board	SLR5500	Protected

 $^{5)}$ Low temperature limited to +5°C as per DNV-CG-0339

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Equipment type		Model	Environment
	Active antenna combiners:		
	2-channel combiner	ZEN-COMB-2CH	Protected
	3-channel combiner	ZEN-COMB-3CH	Protected
	3-channel combiner	ZEN-COMB-4CH	Protected
Accessories	Heavy Duty Headset for DP4xxxe	PMLN5275C	Protected
	Heavy Duty Headset for DP4xxxe	PMLN6853A	Protected
	Headset for DP4xxxe	MT53H79A-77	Protected
	Heavy Duty Headset for DP4xxxe	A-COM TRBO	Protected
	Body Switch for Handsfree Operation of DP4xxxe	C-C440	Protected
	Headset with Bone Microphone for DP4xxxe	HC-1	Protected
	Foot Switch	254-2348	Protected
	Microphone for DM4xxxe	DM8320	Protected
	Noise Cancelling Heavy Duty Headset for DP4xxxe	PMLN6852A	Protected
	Behind-the-Head Headset, GCAI Mini	PMLN8085A	Protected
	Over-the-Head Headset, GCAI Mini	PMLN8086A	Protected
	Over-the-Head Headset, NEXUS	PMLN8265A	Protected
	Behind-the-Head Headset, NEXUS	PMLN8266A	Protected
	Hardhat Mount Headset, NEXUS	PMLN8267A	Protected
	PTT NEXUS Adapter, GCAI-MINI	PMLN8297A	Protected

Application/Limitation

Application:

The system may be used as:

- 1. Automatic telephone system,
- 2. Public Address system (combined with SPA V2 or Exigo system with the same application and limitations as specified in the type approval of that system),
- 3. General Alarm system (combined with SPA V2 or Exigo system with the same application and limitations as specified in the type approval of that system),
- 4. Talk Back system as handsfree two-way voice communication system as required by DNV Nautical safety rules.
- 5. ACM IC-Edge automatic telephone, IP intercom for independent installation without external call server.
- 6. Fixed and handheld UHF communication system; interfaced to UHF on-board Base Station SLR5500 and ACM System for interface of PA.
- 7. Fixed and handheld UHF communication may be applied to comply with requirements for Safe Return to Port (SRtP), subject to configuration and installation. Compliance with SRtP is subject separate vessel specific approval (plan approval).

Limitations:

- 1. When used as combined PA/GA system together with SPA V2 or Exigo system, two independent loops are needed in all public areas. The ACM intercom units can provide PA/GA coverage for one of the loops.
- 2. When used as Public Address system onboard passenger vessels, the SPA system shall be duplicated.
- 3. Network / network equipment/VLAN solution shall be in accordance with Zentiel's specifications in "Data Network Guideline for Ships VINGTOR ACM Solution, Doc. No. A100K10649". When such subsystems/components are not included in Zenitel's delivery, Zenitel shall evaluate these subsystems/components towards above mentioned specification and include the relevant documents in the system document package delivered for each installation.
- 4. Local muting of the loudspeakers near call stations shall be available.
- 5. Any Ex-equipment (equipment to be used in areas with explosive atmosphere) listed in this certificate are subject to separate Ex- approvals.
- 6. ACM IC-Edge components as indicated in above product description may be configured and installed to comply with DNV rules for Automatic Telephone systems. Installation to be in accordance to installation documentation.
- 7. UHF listed may be fitted with headsets and microphones for handsfree communication. Installation to be in accordance to installation documentation. UHF repeater SLR5500 may provide dual LAN communication link between units, and be interfaced to ACM for PA announcement on dedicated channels.

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Tests carried out

• Performance testing: DNV-RU-SHIP Part 6 Chapter 3 - for Two-way voice communication,

Public Address, General Alarm and handsfree two-way voice communication.

• Environmental testing: IEC 60945 (2002) incl. Corr.1 (2008)

Marking of product

The Manufacturer and Type Designation to be applied to the equipment in a clearly visible location. In addition the equipment shall be marked with serial number, safe distance to magnetic compass, power consumption and/or supply voltage.

Periodical assessment

Periodical assessment is to be performed after 2 years and after 3.5 years. A renewal assessment will be performed at renewal of the certificate.

The scope of the periodical/renewal assessment is to verify that the production quality conditions stipulated for the type approval are complied with and that no alterations are made to the product design or its components and/or materials without appraisal by the Society.

This certificate is only valid if required periodical assessments are carried out with satisfactory results. To check the validity of this certificate, please look it up in https://approvalfinder.dnv.com

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Type Approval documentation

DNV No	Document ID	Rev.	Description
293	RP-66055-01	2021-09-27	Report: Motorola, Environmental test report for MOTOTRBO R7
292	F211357E1	2021-11-02	Motorola: Phoenix Testlab, EMC test report for Motorola MOTOTRBO R7 UHF
290	22639- MARITIME- 00155	A	Report: Motorola, EMC test report for Motorola MOTOTRBO R7 UHF
288	PR142054	2021-08-31	Report: NTS, Vibration, corrosion and solar radiation tests for MOTOTRBO R7 UHF
287	1100	2021-11-09	Certificate: BSH, Compass safe distance testing for Motorola MOTOTRBO R7 UHF
280	F211357E1	2021-11-02	Report: Phoenix Testlab, EMC test report for R7 UHF radio with charger
276	P22-0154	2023-06-28	Report: EKTOS, EMC and environmental test report for FXS-GW-xxP gateway and NV-PL-0xx IP over two-wire switch
275	P21-0145	2022-01-31	Report: EKTOS, EMC and environmental test report for Zenitel Network Equipment C1000 + FPR1010-NGFW-K9 Firewall system
228	A100K11523	2018-12-05	Manual, Zenitel, Exigo Ex Access Panels and Turbine Ex Intercoms- Mounting Manual
221	E21182.00	00	Report: Nemko, EMC test report of Ex Intercoms and Access Panels- V2, TFIX-1-V2, TFIX-2-V2, TFIX-3-V2, EAPFX-1-V2, EAPFX-6-V2
220	30811	0	Report: Applica, EMC and environmental testing of ICX-510
213	E20116.00	2020-11-03	Report: Nemko, EMC and environmental test report for IP Intercom stations IP Desk Master station with Handset-V2 and IP Desk Master-V2
212	E20115.00	2020-11-04	Report: Nemko, EMC and environmental test report for IP Intercom stations CMR-V-2 and IP-CROR
209	21456	0	Report: Applica, EMC and environmental testing of ICX500 VS Server
207	TAA00000NE	2016-08-22	Certificate: DNVGL, TA certificate for IE 4000 series Industrial Ethernet switches
206	TAA000025B	2019-01-04	Certificate: DNVGL, TA certificate for IE-2000 Ethernet Switches
196	U180661E2	2018-05-28	Report: Phoenix Testlab, Oil resistance test report for DP4801 Ex (MDH56QCN9PA3AN)
195	U180661E1	2018-05-30	Report: Phoenix Testlab, Solar radiation test report for DP4801 Ex (MDH56QCN9PA3AN)
194	RP-58563-01	Α	Report: Motorola, Environmental test report for DP4801 Ex
193	F180661E1	2018-06-06	Report: Phoenix Testlab, EMC test report for DP4801 Ex incl ancillery equipment
192	118-30784-2	2019-06-14	Report: Force Technology, Marine type testing of 2 channel and 4 channel UHF Maritime Combiners
191			Manual: Motorola, DP4801 Ex User Guide
189			Manual: Motorola, DP4401 Ex Non-Display User Manual
182	E19125.01	2019-12-09	Report: Nemko, Environmental test report for Flowire - FCDC3
181	E19084.00	2019-06-12	Report: Nemko, EMC test report for Flowire - FCDC3
179	A100K11960	2019-10-11	Manual: Zenitel, Replacing Flowire FCDC3 Converter
178 177	A100K11959 A100K11958		Manual: Zenitel, Flowire FCDC3 Guidelines for Exigo Manual, Zenitel, Flowire FCDC3 Configuration Manual
176	A100K11957	2019-10-11	Manual: Zenitel, Flowire FCDC3 Getting Started Guide
172	TAA00001D2	Latest rev.	Certificate: DNVGL, Type Approval certicate for SPA-V2 PA/GA system
171	TAA000003W	Latest rev.	Certificate: DNVGL, Type Approval certicate for Vingtor Exigo PA/GA system
163	A100K11711	Revision 1.0	Manual: ACM System - Marine UHF
162	A100K11720	Version 1.0 (signed)	Report: ACM Pulse Test Specification Performance Test DNV
161	A100K11700	Rev -01 (signed)	Report: Performance Test procedure DNV GL Approval of Upgrading ACM System Including UHF On-board Radio Capabilities
149	T208091-1 - DANAK 1914910	2015-01-13	Report: Delta IEC60945 Test of Data Networking Equipment according to Marine specifications - Zenitel Norway AS
147	A100K11065		Manual: VINGTOR Pulse Getting Started

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DNV No	Document ID	Rev.	Description
145	30-12-2016	rev1.0	Procedure: ACM Pulse Test Specification Performance Test DNV
144	A100K11700	rev03	Procedure: MotoTurbo DNV-GL Performance Test Procedure
142	U161176E1	Ver. 2	Report Phoenix TestLab: Test report IEC60945 Environmental testing DP4XXX (DP4801)
141	U160035		Report Phoenix TestLab: Test report IEC60945 environmental tests for UHF SLR 5500
140	U113486E1		Report Phoenix TestLab: Test report safety and environmental (IEC 60945) testing of DM4XXX (DM4601)
136	F161176E1 Annex A		Report Phoenix TestLab: Photos from IEC 60945 and ETSI 300 720-1 testing of DP4XXX
135	F161176E1		Report Phoenix TestLab: IEC 60945 Report from EMC testing acc - DP4801e
134	F160035E2 Annex A	2nd edition	Report Phoenix TestLab: Annex A Photos from IEC60945 testing of SLR5500
133	F160035E2	2nd edition	Report Phoenix TestLab: Test report IEC60945 for SLR5500
129	E113486E1[1]		Report Phoenix TestLab: Test report IEC 60945 for DM4XXX (DM4601) Fixed mobile UHF radio
126	2011-10-10		Report BSH: IEC60945 Compass Safe Distance - DM4601-UHF LP
125	2016-02-10		Report BSH: IEC60945 Compass Safe Distance - Motorola SLR 5500 R
124	FF113486E1		Report Phoenix TestLab: Annex A Photos from safety and environmental (IEC 60945) testing of DM4XXX (Fixe type)
123	2016-09-12		Report BSH: IEC60945 Compass Safe Distance - UHF DP4801e
89			SLR5500_BSIM_EN
71	TAA000003W	Rev 1	TAA000003W Rev 1- Vingtor Exigo
57	U160035E1		Report: EN 60068 -, EN 60945 , Phoenix Testlab, Motorola SLR 5500 Filter FMT05B03
55			Report: EN 60945 Phoenix Testlab, UHF on-board vessels repeater SLR5500 with line filter FMT05FB03 Annex A
54	F160035E2	2nd edition	Report: EN 60945 Phoenix Testlab, UHF on-board vessels repeater SLR5500 with line filter FMT05FB03
53			Report: IEC 60945 Phoenix Testlab, UHF on-board vessels repeater SLR5500 with line filter FMT05FB03 Annex B
50	933	2nd version	Certificate: BSH, Compass safe distance test IEC60945 11.2 - Motorola SLR 5500
49	U161176E1		Report: EN 60068 -, EN 60945 , Phoenix Testlab, Motorola DP4801e
48			Report: EN 60945, Phoenix Testlab, Motorola DP4801e, Annex
47	F161176E1		Report: EN 60945, Phoenix Testlab, Motorola DP4801e
46	954		Certificate: BSH, Compass safe distance test IEC60945 11.2 - Motorola DP4801e
42			Datasheet: Procom PRO-COM450-HDAR-2/ 2-Channel 19
41			Datasheet: Procom PRO-ARG, 19" Rack-Mountable Receiver Multicoupler series for the VHF through low UHF bands 50 MHz - 960 MHz.
38	69 280-90 HH	2009-07-24	Certificate: GL, Rittal KL, AE, AK, AS, AP and EB cabinets
35	ACM 11.2.3.10	2014-06-12	Description: Zenitel, ACM 11.2 Release notes
33	E14084.00	2014-06-12	Report: Nemko, EMC and environmental test report for Turbine Ex intercom
32	E14083.00	2014-06-11	Report: Nemko, EMC and environmental test report for Turbine Industrial intercom
31		2014-06-01	Report: Zenitel, VINGTOR Exigo performance test incl ACM integration and Turbine intercom stations

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DNV No	Document ID	Rev.	Description
29	GR 14-001	2014-05-28	Report: Zenitel, Turbine TCAS-x - EN60945 Compliance
28	20047	0	Report: Applica, Environmental test report for Turbine Compact
27	2013-3236	0	Report: DNV, EMC test report for Turbine Compact
26	2010-3593	1	Report: DNV, Environmental Testing of Vingtor ACM Intercom System
23		2010-20-12 V 1.1	Report: Zenitel, Performance Test DNV Type Approval of upgraded ACM System including IP capabilities
22	A100K10792	V2.0	Manual: Stentofon, ACM Emergency Functions
21	139500	2010-06-07	Report: Nemko, EMC test report for Power Supply unit
18	97-1341	1	Report: DNV, EMC and environmental tests for Vingtor ACM-48 intercom system
17	A100K 10369	1.11, 20. April 2008	Manual: Steenhans, SPA-V2 Public Address and General Alarm System
16	A100K10649	1.0, 03 Feb. 2010	Manual: Vingtor, Data Network Guidelines for Ships - VINGTOR ACM Solution
14	A100K10647	V2.0	Manual: Stentofon, ACM family, System overview and installation
13	A100K10430	V .1.0	Manual: Vingtor, Technical manual ACM Telephone System ACM-M-A-V2
12	96-1197	1997-01-29	Report: DNV, EMC testing of Vingtor VMP/ACM Intercom System for Marine Use
11	GR-YYYYxx	4th, 15.11.2009	Report: Zenitel, Technical Report ACM-system– IEC 60945 Compliance
10	E06067.00	1	Report: Nemko, EMC test report for AlphaCom E series exchanges
9	2000-1366	1	Report: DNV, EMC and environmental test report for AlphaCom M
8	106916/04	2008-06-23	Report: Nemko, EMC test report for IP Intercom Station
7	E07219.00	1	Report: Nemko, Maritime exchange cabinet ACM 144, Radiated disturbance 1-2GHz and Radiated RF field immunity 1-2GHz
6	E07218.00	1	Report: Nemko, Maritime exchange cabinet ACM 48, Radiated disturbance 1-2GHz and Radiated RF field immunity 1-2GHz

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