TYPE APPROVAL CERTIFICATE

This is to certify:

That the Automatic Telephone System

with type designation(s)
Phontech 6200 series

Issued to
Zenitel Norway AS avd Horten
HORTEN, **Norway**

is found to comply with
  DNV rules for classification – Ships

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 **2023-04-11**

This Certificate is valid until **2028-04-10**.
DNV local unit: **Sandefjord**

Approval Engineer: **Steinar Kristensen**

for **DNV**

_____

Frederik Tore Elter
Head of Section

Product description

Phontech ICS 6200 Automatic Telephone System series consists of the following components.

System components may be configured as Automatic Phone system, Public Address System [1] or Talk Back System as listed below.

Analogue Phone System:

Component	Type	Description	Location
Central Unit	Phontech 6200 or	Up to 2 4x Line Interfaces with RJ-45 connectors, 2 x LAN	Protected
	Phontech 6200R	Up to 24 x Line Interfaces with D-sub connectors, 2 x LAN	
	FXS	Analogue telephone interface	
	UPN	ISDN U Interface	
	FXO	Analogue telephone trunk interface	
	E&M	Audio line/ key interface	
	LAN	Ethernet	
Patch panel	Phontech 6205	48 port patch panels	
Cable organizer	4000018586	Brush panel with support plate	
Speaker Phone	Phontech 5123	Flush mounted Speakerphone with Backlight and Call Relay	
Telephone units for use in harsh environments	Phontech 5111	WP Rugged Industrial Telephone	
	Phontech 5111-H	WP Rugged Industrial Telephone with Headset Interface	
Auxiliary equipment	P-6035	Headset for connection with Phontech 5113	
	EHS-24x	Beacons for connection with Phontech 5113	
	FCDC3	Flowire Ethernet Converter	

IP Phone system:

Component	Type	Module number	Location
Bridge Telephone Units	CRM-V-2 CRM-V-HS	IP Flush Master Station Handset for IP Flush Master	Protected [2]
Telephone Units	P-6210, P-6211, P-6212, P-6223, P-7210, P-7211, P-7212, P-7223	Desktop/Wall/Industrial Telephones, with or without handsets	
Telephone units for use exposed to weather	TFIE-x, TFIX-x	Industrial IP Intercom station Ex IP Intercom station Note : The use of "*x*" in Type identifies variants of the products, where x is in the range 1-6	Exposed
Other locations	IPDMH-V2, IPDMHB-V2	Desktop intercom station	Protected
Auxiliary equipment	P-MT7-A	Headset for Analog Telephone and Talk-Back System	NA
	AL-100X	Beacon/Sounder for connection with ResistTel IP2/ ExResistTel IP2	Exposed
	EHS-220X	Beacon/Sounder for connection with ExResistTel IP2/IP152	NA

PA function (components for independent PA system):

Component	Type	Description	Location
Central Unit	ICS 6200 or	Up to 2 4x Line Interfaces with RJ-45 connectors, 2 x LAN	Protected
	ICS 6200R	Up to 24 x Line Interfaces with D-sub connectors, 2 x LAN	
Amplifier	1671	Power Amplifier, 250W/ 100V line output	
Access Panel	P-6216	Emergency PA Unit	

---

[1] Public Address Systems to be installed on EU/EEA ships after 2025-08-15 are required to be certified according to the Marine Equipment Directive (MED), which is outside the scope of this certificate.

[2] Telephone units P-6211, P-6212, P-7211 and P-7212 have been tested according to IP56.

Handsfree Talk Back system (installed independent of other systems)

Component	Type	Module number	Location
Lan Switch	Phontech 7200	24 Gb Ethernet PoE switch, 2 SFP Gb fiber ports	Protected [3)]
Telephone Units	P-6210, P-6211, P-6212, P-6223, P-7210, P-7211, P-7212, P-7223	Desktop/Wall or Industrial Telephones with or without handsets	
Central Unit	ICS 6200 or ICS 6200R	Up to 2 4x Line Interfaces with RJ-45 connectors, 2 x LAN\n\nUp to 24 x Line Interfaces with D-sub connectors, 2 x LAN	
Auxiliary equipment	P-MT7-A	Headset for Analog Telephone and Talk-Back System	NA
	AL-100X	Beacon/Sounder for connection with ResistTel IP2/ ExResistTel IP2	Exposed
	EHS-220X	Beacon/Sounder for connection with ExResistTel IP2/IP152	NA

Application/Limitation

- The Phontech 6200 Automatic Telephone System series may be: Used in cargo ships, passenger vessels and mobile offshore units for compliance with the following codes/rules/regulations, as amended:
  - SOLAS
  - HSC Code
  - MODU Code
  - DNV Statutory Interpretations
- ICS Central is to be installed in a manner that does not impair bridge personnel night vision, as the display back-light is not dimmable.
- Any Ex-equipment (equipment to be used in hazardous areas with potentially explosive atmospheres) listed in this Certificate is subject to separate Ex-approvals.
- The Phontech 6200 Automatic Telephone is to be installed in accordance to makers installation manual chapter 2.10.1 (INSTALLATION MANUAL Phontech 6200) and may fulfill requirements for Automatic Phone System depending on installation.
- The Phontech 6200 may fulfill requirements for Public Address System, if installed as an independent system with components listed for PA in this certification. Installation is to be in accordance to makers installation manual chapter 2.10.1 and 2.6 (INSTALLATION MANUAL Phontech 6200).
- The Phontech 6200 Analogue and IP phone system may be integrated.
- The Phontech 6200 IP phone system may provide VoIP interface, as listed in chapter 6 (INSTALLATION MANUAL Phontech 6200). Phones interfaced are to have lowest priority and to be installed outside of the bridge and locations required by SOLAS.*
- Automatic Telephones Phonetech 6210, 6211, 6212, 6223, 7210, 7211, 7212, 7223 may be used as speakers with Zenitel duplicated PA/GA MPA 1600 or SPA system installation subject to the conditions in **Note below.

*Note:
Models Snom 710 and 720 IP phones have been part of functional testing for VoIP, these phones are not part of certification and do not fulfil IEC 60945 requirements and may only be used in locations outside of the bridge and locations required by SOLAS.

**Note:
- In locations where Automatic Telephones are installed to comply with the requirements for mandatory two way communication (i.e. required by SOLAS and/or DNV class rules), the telephones are to be used as telephones only. Separate PA/GA speakers for both A and B-loops are to be installed in these locations.
- Phones may only be used as PA/GA speakers if connected to one and the same speaker loop in a duplicated A and B system.
- System is to be set up such that PA/GA overrides all other functions,
- Phones used in accordance to above as PA/GA speakers - are to be fixed, permanently mounted to desk or wall.

[3)] Telephone units P-6211, P-6212, P-7211 and P-7212 have been tested according to IP56.

Type Approval documentation

DNV No	Drawing No	Rev.	Title
81	E20116.00	00	Report: Nemko, EMC and environmental test report for IP Intercom stations IP Desk Master station with Handset-V2 and IP Desk Master-V2
79	TAA00000ZN	Latest rev.	Certificate: DNV, Type Approval certificate for Vingtor ACM System
76	4000089459	B	Manual: Zenitel, User Manual ICS 6200 Call Logging Interface
73		A	Manual: Zenitel, User Manual for 62xx/72xx terminals
72	FAT ICS6200	6	Report: Jotron, Phontech 6200 including IP Telephones
71	ICS 6200-100-SL - Rev5 - 2 of 2	Rev 5	Drawing: Phonetech 6200 Single Line Diagram - Telephones and PA System
70	ICS 6200-100-SL - Rev5 - 1 of 2	Rev 5	Drawing: Phonetech 6200 Single Line Diagram - Telephones and PA System
68	E18206.00		Report: IEC60945 NEMKO, IP Telephones Phontech 6210, 6211, 6212, 6223, 7210, 7211, 7212 and 7223
58			INSTALLATION MANUAL Phontech 6200
54	E17239.00		Report: Nemko EN 60945:2002 - Partial testin, Digital communication system - ICS 6200R
51	E15270.03		Report: Nemko EN 60945:2002 - LAN Switch Phontech 7200
50	TAA00000HX	Latest rev.	Certificate: TA DNVGL IEC 60945 Phontec 7200
49	E17158.00		Report: Nemko EN 60945:2002: Partial testing - Phontech 6216 Emergency PA Microphone - Phontech 6216
48	E10242.01		Report: Nemko EN 60945 (2002) (EN 55024 (1998) + A1 (2001) + A2 (2003)) - Bridge Control Telephone Unit Type 5123
45		2019-08-11	Manual: Zenitel, User Manual Type 5111
44	2214421KAU-002a		Report: Intertek IEC 60945 - Environmental - Phonetech Type 5111
43	2214421KAU-001a		Report: Intertek IEC 60945 - EMC - Phonetech Type 5111
41	E17059.00	Rev 00	Report: Nemko IEC 60945 - PA/GA Power Amplifier Phontech 1671
38	E16193.00	Rev 00	Report: Nemko IEC 60945 - Patch Panel ICS 6200, ICS 6220, ICS 6225, ICS 9040
37	E13029.01	Rev 01	Report: Nemko IEC 60945 - Intercom/Telephone exchange for maritime use ICS 6200
36	P/N: 87477 (v.C)	Rev. no.: 4	Manual: Users Manual For Phonetech 6200 Terminals
35	p/n 87299 v.G	Rev. no.: 6	Manual: Installarion Manual Phonetech 6200
31	FAT ICS6200	Rev. no.: 5	Phonetech 6200 Integrated Communication System - Test prosedure - Signed
18	09601-100-TP Report	2	Report: Phontech 6200 Integrated Communication System, Performance Test Report
16	87477	A	Manual: Jotron, User manual for Phontech 6200 terminals
15	E13029.01	01	Report: Nemko, Environmental test report for Phontech ICS 6200
14	E10242.01	01	Report: Nemko, Environmental test report for Type 5123 Telephone Unit
11	4000087299	J	Manual: Zenitel, Installation Manual ICS 6200

Tests carried out

- Environmental testing: - IEC 60945 (2002) incl. Corr.1 (2008)
- Performance testing: - DNV Type Approval program 848.25 for Automatic Telephone systems
  - DNV Type Approval program 848.22 for PA/GA systems (applicable parts for PA)
  - DNV Type Approval program 848.26 for Handsfree Talk Back Systems

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