

TYPE APPROVAL CERTIFICATE

This is to certify:**That the Batteryless Telephone System**with type designation(s)
VSP

Issued to

Zenitel Norway AS
HORTEN, Norway

is found to comply with

DNV GL rules for classification – Ships, offshore units, and high speed and light craft**Application :****See page 2**

Temperature	A-D (See page 2)
Humidity	B
Vibration	A
EMC	B
Enclosure	A-B-C (See page 2)

Issued at **Høvik** on **2017-12-11**for **DNV GL**This Certificate is valid until **2022-12-10**.DNV GL local station: **Sandefjord**Approval Engineer: **Steinar Kristensen**

Jan Tore Grimsrud
Head of Section

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.



Product description

Batteryless Telephone system for up to 20 extensions with hand generator. The system may be used with additional visible/audible signal units, and headset.

Type designation	Description	Location class, Temperature	Location class, Enclosure
VSP211A-L	Telephone with amplifier	A	A
VSP211L	Telephone with amplifier, 12 positions selector	A	A
VSP-211M-L	Telephone with amplifier, 10x2 positions selector	A	A
VSP-212M-L	Telephone, 10x2 pos. selector, relay latch timer	A	B
VSP-213A-L	Telephone	A	B
VSP-213L	Telephone, 12 positions selector	A	B
VSP-213M-L	Telephone, 10x2 positions selector	A	B
VSP-223A-L	Telephone, relay latch timer	A	B
VSP-223-L	Telephone, 12 pos. selector, relay latch timer	A	B
VSP-122A	Telephone, watertight	D	C
VSP-122AP	Portable telephone, watertight	D	C
VSP-122	Telephone, watertight, 12 pos. selector	D	C
VSP-122P	Portable telephone, watertight, 12 pos. selector	D	C
VSP-22M	Telephone, watertight, 10x2 pos. selector	D	C
IRR-VSP-24	Relay timer, 24VDC	A	B
IRR-VSPM-24	Relay timer, 24VDC	A	B
IRR-VSP-110	Relay timer, 110VAC	A	B
IRR-VSP-220	Relay timer, 220VAC	A	B
IRR-VSPM-220	Realy timer, 220VAC	A	B

Application/Limitation

- The system is to be installed as specified in equipment manuals.

Tests carried out

- Environmental testing: DNV Standard for Certification 2.4 (2006).
- Environmental testing: IEC 60945 (2002)

Type Approval documentation

DNV GL No	Document ID	Rev.	Description
12	96-1196	1996-10-16	Report: DNV, EMC testing and type testing according to DNV 2.4 of Vingtor VSP and VSS system
11	A100K10873	v6.0	MANUAL: Zenitel, VSP-12 WAY Technical Manual
10	A100K10758	v6.0	Manual: Zenitel, VSP-M 20 WAY Technical Manual
9	A100K10756	v6.0	Manual: Zenitel, VSP-M 20 WAY User Guide
8	A100K10675	v6.0	Manual: Zenitel, VSP 12 WAY User Manual
7		2008-05-08	Complete Documentation
5	2008-3232	01	Report: DNV, Compass Safe Distance test of VSP Batteryless Telephone Apparatus
2	S97 0662b	October 1997	Report: JYSKE EMC LAB A/S, EMC-test of Batteryless Telephones VSP-211M-L (ver.03) & VSP-212-L (ver. 03)
1	S97 0662a	October 1997	Report: JYSKE EMC LAB A/S, EMC-test of Batteryless Telephones VSP-211-L (ver.03) & VSP-223-L (ver. 03)

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.