

VINGTOR VSS-V2

Sound Reception System



when communication is **critical**

FEATURES

- **Active noise cancelling and tone detection based on DSP technology**
- **Dimmer and adjustable backlight**
- **Sector indication via 8 LEDs**
- **Central microphone unit with 4 directional microphones for mounting on top of the wheelhouse**
- **Max. ambient noise level 70dB**
- **Web interface for system operation**
- **Output for voyage data recorder**
- **Remote muting when typhoon/foghorn or Public Address system is activated**
- **Override function to hear unfiltered sound from microphone unit**
- **Able to connect up to 4 slave panels**

DESCRIPTION

The VINGTOR Sound Reception (VSS) system is a navigational aid system required on ships with enclosed bridges. The system enables the officer in charge of the navigational watch to hear sound signals and determine their direction. The VSS-V2 conforms to the SOLAS regulation (HSC code).

To improve operation and detection of sound signals, the VINGTOR VSS-V2 system utilizes DSP technology. DSP (Digital Signal Processing) provides active noise cancellation to remove background noises in order to make external noise signals clearer and to remove unwanted noise from the bridge.

The VSS-V2 system is easy to install. The system consists of one microphone unit with four integrated directional microphones for mounting on top of the wheelhouse. The VSS-V2 main panel is installed on the bridge panel. The bridge main panel has interfaces to up to four slave panels, the Voyage Data Recorder (VDR) and a relay output for muting the typhoon/foghorn and public address system.

APPROVALS

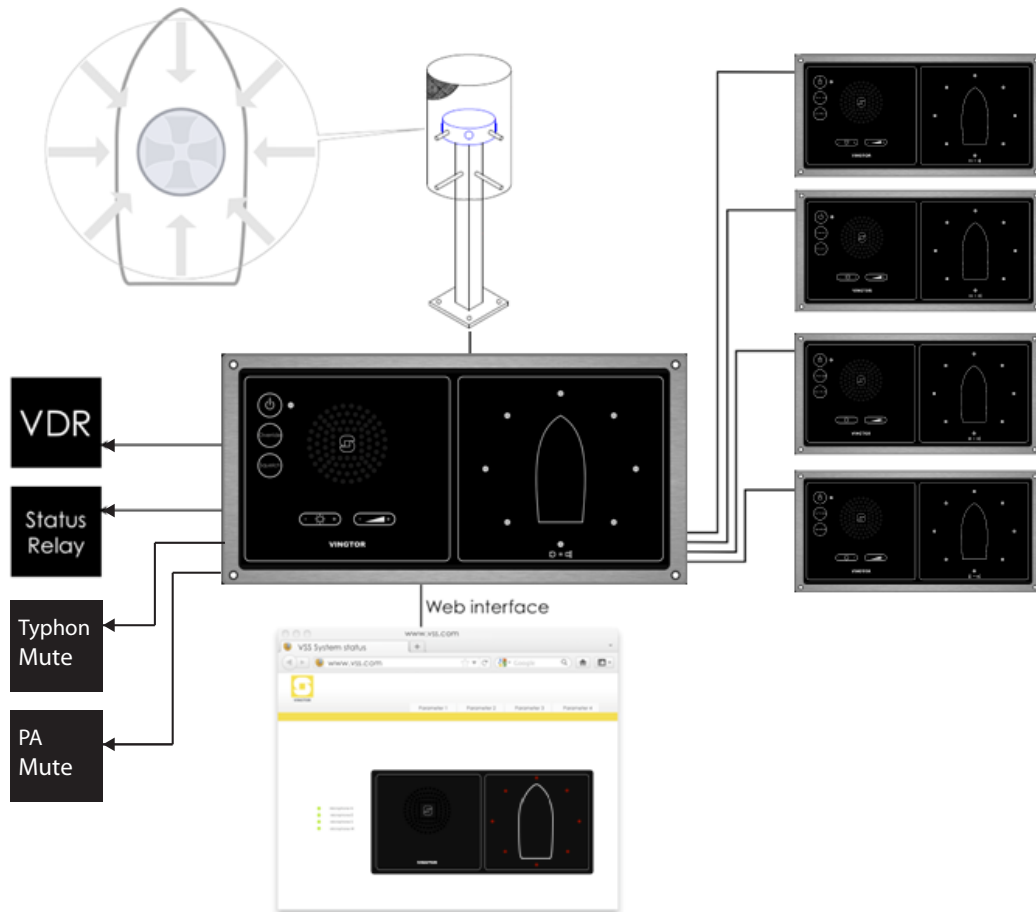
The VSS-V2 is certified according to ISO 14859:2012 performance approval and DNV 845.50 (6/2012) type approval programme.



VSS-V2 SYSTEM SPECIFICATION

VSS Master Panel - V2	
Dimensions (WxHxD)	280 x 140 x 90 mm
Mounting	Flush
Housing	Brushed aluminum with foil
IP rating	IP-22
Operation voltage	24 V DC
Audio	70 Hz to 2'100 Hz Active noise cancellation Adjustable volume Squelch to adjust the automatic threshold
LEDs	8
Buttons	Power, Override, Squelch, Dimmer, Volume
Operation voltage	24V DC +30% / -10%
Current load Master & Mic Including 1 slave panel	Max. 200mA Max. 270mA

VSS Slave Panel - V2	
Dimensions (WxHxD)	280 x 140 x 51 mm
Power	Internal from the master panel
Mounting	Flush
Housing	Brushed aluminum with foil
IP rating	IP-22
Operation voltage	24V DC
LEDs	8
Buttons	Override, Dimmer, Volume
VSS Microphone Unit - V2	
Housing	Stainless steel
IP rating	IP-66 / IP-67
Environment	-55°C to +55°C
Directional microphones	4
Max. ambient noise level	70dB
Power	Internal from the master panel



SYSTEM MODELS

ORDER NUMBER	TYPE	DESCRIPTION	SHIP WEIGHT
1021001100	VSS-MP	VSS Master Panel - V2	1.300 kg
1021001200	VSS-SP	VSS Slave Panel - V2	0.750 kg
1021002100	VSS-MU	VSS Microphone Unit - V2	8.200 kg