SAILOR® 7222 VHF DSC CLASS A

Clarity in communications

Product Sheet

Highly resilient and easy to operate in any situation, the SAILOR 7222 VHF DSC Class A is the most advanced SAILOR radio for demanding users operating within the SOLAS maritime environment. As a next generation solution at the forefront of radio technology, it unlocks new performance gains that improve critical safety and regular operational communication.

Technology Updated. GMDSS Compliant

Exceeding standards set by IMO regulation for GMDSS Class A VHF, the August 2021 introduced Bridge Alert Management IMO resolution MSC.302(87), as well as IEC 62923-1 & IEC 62923-2, the SAILOR 7222 VHF DSC Class A is a robust platform for when clear communication could make the difference between a non-event or a major incident.

Building on the established technology leadership of SAILOR VHF DSC radios before it, SAILOR 7222 VHF DSC features updated hardware and software to deliver even more reliability. Its new and innovative, user-friendly 5.5" TFT touch-screen interface further streamlines workflows and optimises operational safety and efficiency.

Flexible Features and Deployment

SAILOR 7222 VHF DSC Class A VHF is quick and easy to install standalone, or as a core component of a SAILOR GMDSS console. Advanced networking functionality also significantly reduces the installation and service burden, when deployed as part of a fully compliant solution with other compatible SAILOR products, including mini-C, MF/HF, NAVTEX and AIS.

Providing communication clarity at all times, the SAILOR 7222 VHF DSC Class A VHF is far more than just a means of meeting regulations. It's a vital tool for daily operations with the features and ruggedness for diverse users on any vessel, from trawlers and workboats to merchant ships and specialist offshore vessels.

The Best Just Got Better

Flexible screen colour options for optimal operation day and night

Intuitive and easy to use interface reduces errors and improves safety

Unique SAILOR Replay function enables simple and fast message verification

Powerful 6W loudspeaker for clear audio inside or outside (rated IPx6/IPx8)

Complete accessories portfolio including microphones and handsets

LAN based service interface streamlines maintenance and troubleshooting

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SAILOR 7226 VHF Transceiver Unit

TECHNICAL SPECIFICATIONS	
Weight	1.5 kg (3.3 lbs)
Dimensions	HxWxD: 161 x 306 x 51 mm
Operating temperatures	-15°C to +55°C
Storage temperature	-25°C to +70°C
Ingress protection	IPX2
Power supply	24 VDC +30%/-10%
Power consumption (typical)	Rx operative: 8 W Tx 25 W operative: 65 W Tx 1 W operative: 18 W
Heat dissipation (typical)	Rx operative: 8 W Tx 25 W operative: 40 W Tx 1 W operative: 17 W
Rx/Tx ant. input/output	50 ohm @ Tx voice/Tc DSC & Rx voice
DSC ant. input	50 ohm @ Rx DSC
LAN	2 LAN ports category 6 STP
Frequency range	Voice: 156.000 MHz — 164.000 MHz DSC: 156.525 MHz
Channel spacing	25 kHz, all international maritime channels
Number of P channels	The radio may be programmed with up to 100 private channels in all channel
Modulation	16K0G3E, 16KOG2B (DSC)

TRANSMITTER	
RF output power	dB High: 25 W +0 dB / - 1.5 dB Low: 1 W +0 dB / - 1.5
Frequency error	+/- 3ppm

RECEIVER @ VOICE	
Sensitivity	< -119 dBm typically @ 20 dB SINAD
LF power	Built-in loudspeaker: 6 W (at 5 kHz dev./1 kHz tone) External loudspeaker: 6 W / 8 Ohm

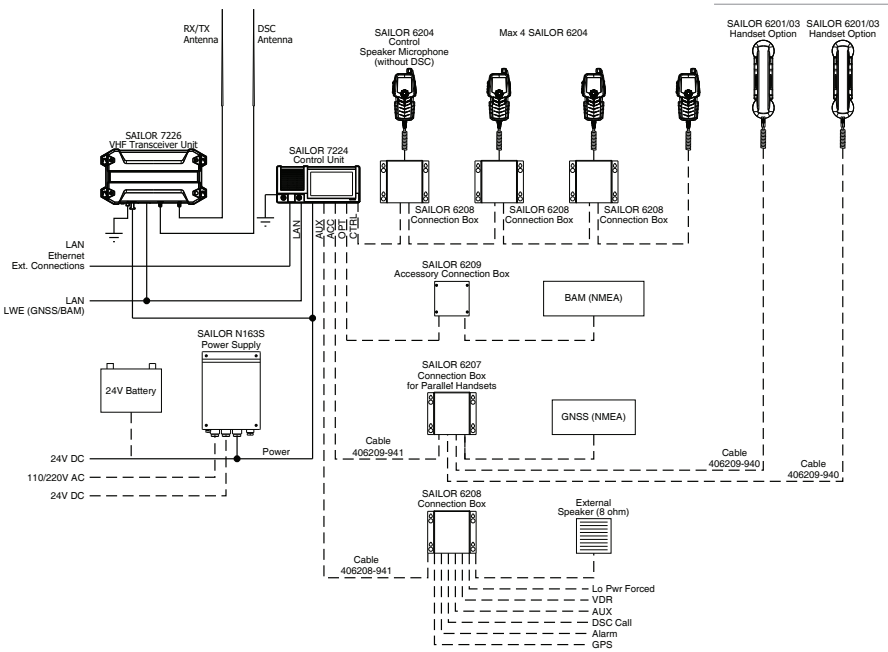
RECEIVER @ DSC	
Sensitivity	-117 dBm

SAILOR 7224 Control Unit

TECHNICAL SPECIFICATIONS	
Weight	1.0 kg (2.2 lbs)
Dimensions	**Height:** Outer dimension 107 mm, hole height for flush mount 89 mm **Width:** Outer dimension 241 mm, hole width for flush mount 227 mm **Depth:** Outer dimension from front of knobs 104 mm, depth for flush mount 94 mm
Operating temperature	-15°C to 55°C (5°F to 131°F)
Storage temperature	-25°C to 70°C (-13°F to 158°F)
Ingress Protection	IP54 when flush-mounted (Estimated, only front exposed) IP20 for other installation (whole unit exposed)
Power supply	+24 V DC nom. (-10% / +30%)
Power consumption	10 W @ 24 VDC standby 33 W @ 24 VDC max
Display	5.5" TFT with capacitive multi touch – 350 cd/m2 . (e.g.800x600 , 1024x768) – 40k Hours to half Brightness
Speaker	2 LAN ports supporting RSTP and 10/100 Mbit 1 LAN port not supporting RSTP
USB	USB 2.0
CTRL_Port	Supporting up to four SAILOR 6204
ACC_Port	Supporting Handset & Hand Microphone. NMEA for GNSS and AIS
AUX_Port	Support for VDR, Alarm I/O, GNSS, AUX OC and Ext. Speaker. Max audio output power: 6W (external LS @ 5 kHz deviation/1kHz)

General DSC Specifications

TECHNICAL SPECIFICATIONS	
DSC operation	According to: - ITU-R M.493.15 - ETSI EN 300 338-1 - ETSI EN 300 338-2
DSC protocol	According to Rec. ITU-R M.493-13 - Class A, IEC 61097-3 and IEC 61097-8
Navigator interface	According to IEC 61162-1 GLL, RMC, ZDA, GGA, VTG, GNS
Modulation	1700 Hz ± 400 Hz. 1200 baud



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Subject to change without further notice.