SYSTEM 4000 GMDSS

Less is more

SAILOR RT4822 VHF DSC A true classic with more features



The SAILOR RT4822 VHF DSC simplex/semiduplex VHF radiotelephone with built-in DSC is a part of Sailor's compact System 4000 GMDSS solution. SAILOR RT4822 is the latest version of the most famous VHF on the seven seas, from one of the leading and most experienced manufacturers of maritime communication equipment in the world.

- Dedicated channel 70 receiver
- Extended class-A DSC facilities
- User-friendly soft-key based interface simplifies the operation
- Graphic LCD display

- Dedicated protected distress button
- Acoustic and visual alarms
- Built-in real time clock
- Serial SPARC-bus system interface
- Printer and NMEA Navigator interface



TECHNICAL DATA

Conform to all relevant international requirements and resolutions as agreed by ETSI, IEC, ITU and IMO as well as other national requirements. These specifications include i.e. ETS 300 162, ETS 300 338, IEC 1097-3 and IEC 1097-7.

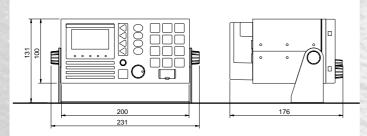
The SAILOR RT4822 VHF DSC is specially suitable for the professional maritime business. The radio is an advanced DSC unit (class A) with all the necessary equipment built in to one compact unit and therefore ideal for areas with limited space as it is the case on most vessels.

In a basic configuration the SAILOR RT4822 includes a transceiver unit and a handset. The SPARC-bus interface, an advanced balanced data and AF interface, can be used to interconnect multiple control units and for exterior computer based control/programming options. The maximum distance between transceiver unit and handset control unit may be 40 m in 12V DC installations, in 24V DC installations up to 80 m.

The Sailor VHF radio combines transmitter, receiver and a 4W loudspeaker in one. The set is equipped with an audio amplifier capable of delivering an additional 6W into an external loudspeaker. The nominal system power supply is 12V DC. By means of SAILOR N163S and/or N420, the system can be powered from the AC mains or a 24V DC battery.

A standard NMEA interface for connection to on-board navigational equipment is available in the transceiver option connector.

DIMENSIONS





Sailor RT4822 Bracket mounted GENERAL

Normal channels: Opt. channels: Channel spacing: Frequency range: Operating modes: Modulation:

DSC operation:

DSC Protocol: Navigator interface: Frequency stability: Aerial connectors: Temperature range: Supply voltage: Supply range: Supply current:

Transceiver dimen.: Transceiver weight:

RECEIVER

Sensitivity for 12 dB SINAD: Symbol error rate below 1x10-2 at: AF rated power Output 1: Output 2: Distortion THD: Signal/noise ratio: AF response: Spurious emission: Spurious resp. att.: Intermodulation att.: Blocking: Co-channel rejection: Adj. ch. selectivity:

All int. ch's for 25 kHz operation Up to 55 private channels All int. ch's for 12.5 kHz operation Up to 224 ch's with up to 54 private ch's 25 kHz / opt. 12.5 kHz 150.8 MHz - 163.6 MHz Simplex/Semi-duplex G3EJN for telephony receiver G2B for DSC signaling According to Rec. ITU-R M. 541-6 and Rec. ITU-R M. 689.2 According to Rec. ITU-R M. 493-7 class A NMEA 0183, GGA, GLL, ZDA + 10 ppm/opt. + 5 ppm Standard 50 Ω female, SO239 -15 °C to +55 °C 13.2V DC Nominal 10.8V DC to 15.6V DC Stand-by 0.27A Transmitter on 1.6A (low power) Transmitter on 5.4A (high power) 100x200x176 mm 2.5 kg

-119 dBm or 0.25 µV p.d.

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4W/4Ω 6W/4Ω Below 5% Better than 40 dB -6 dB/octave Below 2 nW More than 70 dB More than 68 dB More than 90 dBµV n: Better than -10 dB More than 70 dB

TRANSMITTER

RF output power:

Adj. ch. power: Spurious radiation: Cabinet radiation: AF response: Distortion: Signal/noise ratio: Modulation:

AF frequency error: Residual DSC-mod.: High 25W + 0 dB to -0.5 dBLow 0.9W + 0.5 dB to +1 dBBelow -70 dBcBelow $0.25 \mu W$ Below $0.25 \mu W$ +6 dB/octaveBelow 5%Better than 40 dB $1700 Hz \pm 400 Hz$ 1200 Baud (30 ppm)Below + 10 HzBelow 26 dB

Typical specifications subject to change without further notice.



When safety counts

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