

For full two-way communication at sea



The SAILOR RT4722 VHF DSC duplex radiotelephone with built-in DSC is a part of Sailor's compact System 4000 GMDSS solution. SAILOR RT4722 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 945, IEC 1097-3 and IEC 1097-7.

With the Sailor RT4722 VHF DSC the full duplex technology is now available at a relatively little extra cost and in the well-known Sailor design.

The SAILOR RT4722 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. Therefore it is the ideal choice for all areas with limited space as it is the case on most vessels.

In a basic configuration the SAILOR RT4722 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 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.

GENERAL

Normal channels: All int. ch's for 25 kHz operation
Up to 40 private channels

Opt. channels:

All int. ch's for 12.5 kHz operation

Up to 224 ch's with up to 54 private ch's

Channel spacing: 25 kHz / opt. 12.5 kHz

Frequency range: Rx/Tx: 155.4 MHz - 158.0 MHz
Rx: 155.4 MHz - 162.6 MHz
Operating modes: Simpley/Semi-dupley/Dupley

Operating modes: Simplex/Semi-duplex/Duplex

Modulation: G3EJN for telephony receiver

G2B for DSC signaling

DSC operation: According to Rec. ITU-R M. 541-6 and

Rec. ITU-R M. 689.2

DSC Protocol: According to Rec. ITU-R M. 493-7 class A

Navigator interface: NMEA 0183, GGA, GLL, ZDA Frequency stability: + 10 ppm/opt. + 5 ppm Aerial connectors: Standard 50Ω female, S0239

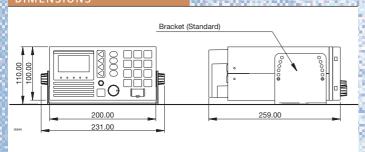
Temperature range: -15°C to +55°C
Supply voltage: 13.2V DC Nominal
Supply range: 10.8V DC to 15.6V DC
Supply current: Stand-by 0.14A

Transmitter on 1.5A (low power)
Transmitter on 6.5A (high power)

Transceiver dimen.: 100x200x259 mm

Transceiver weight: 3.9 kg

DIMENSIONS





Sailor RT4722 Bracket mounted

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.:
Duplex spurious resp. att.:
Duplex desensitation
Intermodulation att.:

Blocking: Co-channel rejection: Adj. ch. selectivity: -118 dBm or 0.28 μV p.d.

-118 dBm or 0.28 µV p.d.

4W/4Ω
6W/4Ω
Below 5%
Better than 40 dB
-6 dB/octave
Below 2 nW
More than 70 dB
.: More than 70 dB
Below 3 dB
More than 68 dB

More than 90 dBμV Better than -10 dB More than 70 dB

TRANSMITTER

RF output power: High 25W + 0 dB to -0.5 dB

Low 0.9W + 0.5 dB to +1 dB

AF frequency error: Below ± 1 Hz
Residual DSC-mod.: Below -26 dB

Typical specifications subject to change without further notice.



When safety counts