

## SAILOR Portable VHF SP3110



The portable  
VHF Transceiver  
for GMDSS



### Safe Communication in an emergency

The SP3110 is approved to fulfill the GMDSS requirements for portable VHF transceivers, and forms part of the complete SAILOR GMDSS programme.

This transceiver has been developed to withstand the harsh conditions in the maritime environment. The watertight design and advanced technology guarantee long life, easy operation and powerful performance.

## SP3110 FULFILS YOUR GMDSS REQUIREMENTS FOR PORTABLE VHF TRANSCEIVERS

This portable transceiver, developed entirely by SAILOR, is a part of the SP3000 programme. Built to meet the special demands for maritime safety equipment but still a convenient tool for daily use.

Made for SAFETY, but still a convenient transceiver for ordinary short range communication, and still with all the maritime simplex channels, quick selection of ch. 16 and two user programmable channels.

The POWERFUL battery solution with a PRIMARY lithium battery stored for the EMERGENCY, and a convenient rechargeable NiCd battery for daily use, gives the user the highest degree of security under all circumstances.

The design, enabling use as a normal telephone handset, - with large pushbuttons for easy ONE hand operation - leaves the user's attention to the critical point, instead of to the radio.

The WATERTIGHT cabinet is made from temperature and shockproof polycarbonate material, assembled with modern ultrasound welding techniques.

The transceiver includes the newest technologies in radio engineering, including ASIC circuits and SMT technology, giving the highest possible reliability, and a flexible system design.

### SAILOR portable GMDSS VHF transceiver SP3110 standard package:

- VHF transceiver SP3110.
- Helical aerial SP3941
- Belt clip and wrist strap.
- Standard battery charger SP3911
- Primary EMERGENCY Battery SP3905
- Rechargeable 700mAh battery pack SP3901

Specifications subject to change without notice.

## TECHNICAL SPECIFICATIONS

Conforms to the international GMDSS requirements stated by IMO, and equivalent specifications like ETS 300 225.

### General

Normal channels:	All international simplex channels.
Opt. channels:	Up to 80 ch's in a 12.8 MHz band.
Channel spacing:	25 kHz/opt. 12.5 kHz.
Std. Freq. range:	150.8 - 163.6 MHz.
Operating modes:	Simplex/Semi-duplex.
Modulation:	G3EJN (phase)
Frequency stability:	± 10 ppm/opt. ± 5ppm
Antenna connection:	M8 thread direct matched aerial. Opt. adapter for BNC.
Temperature range:	-20°C to +55°C
Supply voltage:	7.5V -15% to +40%
Operation time:	Typically 8 Hours at 10% Tx, 10% Rx and 80% standby w. 1200 mAh pack (H)195mm, (W)65mm, (D)47mm
Transceiver dimen.:	460g
Transceiver weight:	Primary Lithium EMERGENCY Pack 200g.
Battery weight:	Rechargeable NiCd pack 700 mAh 190g. Rechargeable NiCd pack 1200 mAh 310g.
Housing category:	IP 57

### Receiver

Sensitivity for:	-119dBm or
12dB SINAD:	0.25 mV p.d.
AF output power in speaker mode:	500mW/8 Ω
in telephone mode:	50 mW/8 Ω
Distortion THD:	Below 10%
Signal/noise ratio:	better than 40 dB
AF Response:	-6 dB/octave
Spurious emission:	Below 2 nW
Spurious resp. att.:	More than 70dB
Intermodulation att.:	More than 70dB
Blocking:	More than 90dB/μV
Co channel rejection:	More than 8 dB
Adj. ch. selectivity:	More than 70dB

### Transmitter

RF output power:	2 W Hi/0.2W Lo
Adj. Ch. Power:	Below -70 dBc
Spurious radiation:	Below 0.25 μw
Af response:	+6 dB/octave
Distortion:	Below 5%
Signal/noise ratio:	Better than 40 dB

