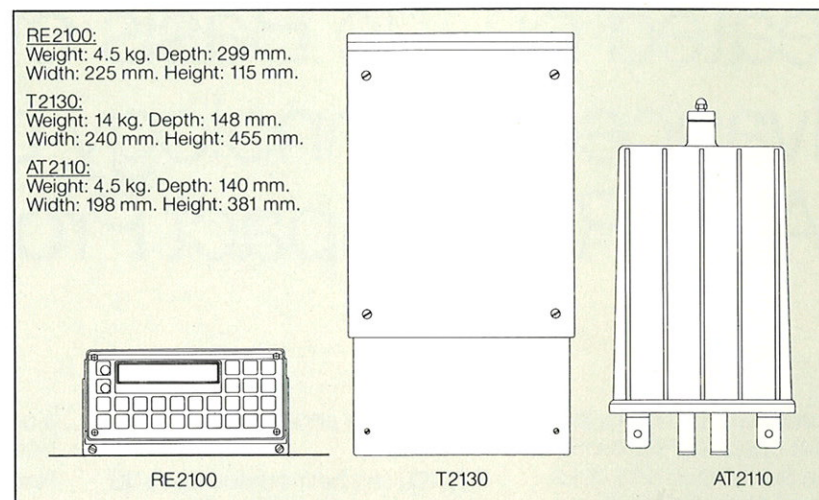


"SAILOR" – the green line

## "SAILOR" COMPACT HF SSB RADIOTELEPHONE

*SAILOR, the product name of S. P. Radio A/S is based on more than 50 years of experience in development, production, and marketing of maritime communication equipment. We have general agents in more than 70 countries, and our products have been installed in the smallest of boats to the largest of vessels as well as land mobile stations (point-to-point). Besides short wave radiotelephones we manufacture VHF radiotelephones, SSB coast telephony, transmitters and receivers, automatic radiotelex, and scrambler equipment.*



### Technical data for RE2100/T2130/AT2110

(complies with SOLAS, ITU, CEPT, MPT, DOC, FTZ, KSR, FCC, and other national requirements).

#### GENERAL

**Frequency Range:**  
Receiver: 100 kHz to 30 MHz  
Transmitter: 1.6 MHz to 30 MHz

**Modes:**  
J3E (USB/LSB), R3E and H3E (AM)

**Channel Capacity:**  
100 operator-selected quick-select channels and ITU telephony channels in the maritime bands. Each channel contains both RX and TX frequency and mode settings.

**Scanning Facilities:**  
10 operator-programmed scanning programmes, each able to contain 128 pairs of frequencies.

**Distress Call:**  
Quick selection of 2182 kHz.  
Built-in two tone alarm: 1300 Hz and 2200 Hz with a duration of 45 secs.

**Operating Temperature Range:**  
-15°C to +55°C.

**Frequency Stability:**  
Better than 1.3 ppm.

**Current Drain:**

Receiver (standby)	1.5A
Transmit voice	7A
Transmit two-tone	13A

**Aerials:**  
From 7-15 m

#### TRANSMITTER

**Power Output:**  
250W PEP  $\pm$  1.4 dB.

**Intermodulation:**  
Better than 32 dB below PEP.

Specifications subject to change without further notice.

**Spurious Emission:**  
Better than 67 dB below PEP.

**Harmonics:**  
Better than 43 dB below PEP or better than 67 dB below PEP with aerial coupler AT2110.

**Carrier Suppression:**  
Better than 46 dB below PEP.

**Audio Response:**  
350 Hz to 2700 Hz at -6 dB.

#### RECEIVER

**Receive System:**  
Double conversion super heterodyne 1st IF 70 MHz. 2nd IF 10.73 MHz.

**Selectivity:**  
J3E (SSB) 350 Hz to 2700 Hz at -6 dB.  
H3E (AM)  $\pm$  3.3 kHz at -6 dB.

**Sensitivity:**  
J3E (SSB) < 10 dB/uV for 20 dB SINAD.  
H3E (AM) < 24 dB/uV for 20 dB SINAD.

**Spurious and IF Rejection:**  
Better than -70 dB.

**Cross Modulation:**  
Better than 90 dB/uV (CEPT method of test).

**Desensitization:**  
Better than 100 dB/uV (CEPT method of test).

**AGC:**  
Less than 2 dB audio level change from 10 dB/uV to 80 dB/uV. Fast attack, slow release time.

**Intermodulation:**  
Better than 90 dB/uV (CEPT method of test).

**Spurious Emission:**  
Better than 1 nW into dummy aerial.

**Clarifier:**  
 $\pm$  150 Hz in steps of 10 Hz.

**Squelch:**  
Speech controlled, opens for SINAD > 6 dB.

**Audio Power:**  
5 Watt, 8 ohm, less than 10% distortion.  
10 Watt, 4 ohm, less than 10% distortion.

#### AERIAL COUPLER AT2110

**Power:**  
250W PEP.

**Aerial:**  
7-15 m.

**Temperature Range:**  
-25°C to +70°C.

**Tuning Time:**  
Typically less than 2 secs (learn mode typ. 30 secs).

#### ACCESSORIES

**Loudspeaker:**  
H2054 and H2074 see special brochure.

**Power Supplies:**  
**24V DC:** primary voltage 24V DC - 10% +30%.  
No power supply necessary.

**12V DC:** type N2160, 12V DC.  
-10% +30% to 24 V DC.  
Max. output current 18 Amps.  
Highly efficient and compact.

**AC:** type N2161, 110/127/220/240V AC.  
50-60 Hz to 29V DC.  
Max. output current 20 Amps.  
Automatic change-over between AC and DC.  
May also supply 12V DC power for e.g. the VHF.



"SAILOR" COMPACT HF SSB RADIOTELEPHONE

## "SAILOR" Breaks the Limits for HF SSB Communication

Small and sturdy, compact and competitive · professional system · low weight · remote controlled · frequency range: 100 kHz – 30 Mhz · SSB (USB and LSB) and AM · continuous coverage · 250W PEP output power · speech controlled squelch · powerful low frequency output · bright and readable display · simple operation and installation · nylon-coated metal cabinet · patented aerial coupler with high efficiency · all units can be mounted independently · designed for operation 24 hours a day.



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## Simple, Userfriendly, and Straight Forward Control Unit

*SAILOR Compact HF SSB Radiotelephone* is a new product in the Compact 2000 programme from S. P. Radio A/S. The compact SAILOR system contains 3 main units, which can be mounted separately: control unit RE2100, transmitter T2130, and aerial coupler AT2110.

The new SAILOR radiotelephone has continuous tuning and complete frequency coverage (RX: 100 kHz-30 MHz, TX: 1.6-30 MHz), SSB (USB and LSB) and AM, and simplex/semi-duplex.

The radiotelephone is supplied from 24V DC, and connection to 12V DC and 110/127/220/240V AC is optional.

Each of the 3 units in the radiotelephone can be replaced without adjustment, and they all have built-in diagnostic test programmes.

*The Control Unit RE2100* has straight forward key-in procedure and is incredibly easy to operate. It contains all ITU telephony channels, 100 operator-selected quick-select channels and 10 operator-programmed scanning programmes with up to 128 channels in each.



## Created on the Basis of the Advanced Technology of the "SAILOR" Compact Programme

RE2100 has a bright and readable display, the operating section has night-time illumination and quick access to all essential functions – e.g. the emergency frequency 2182 kHz is one button operated and with built-in 2-tone alarm.

The push buttons, offering the attractive solid feel, have no double functions.

The control unit has BUS-output/input and is thus prepared for operation together with other units on board – e.g. a personal computer.

Furthermore it means that the system is prepared for extra remote controls, duplex, DSC (GMDSS), scrambler, additional

loudspeaker and automatic radiotelex.

RE2100 can be mounted up to 30 metres from the transmitter.

The receiver has speech controlled squelch, noise suppressive AGC, and powerful low frequency output ensuring good reproduction.

*The Transmitter T2130* has 250W PEP output power and built-in power supply for 24V DC. It is of modular construction, which ensures easy installation and service – all connections are carried out to this part of the SAILOR Compact HF SSB Radiotelephone.

*The Aerial Coupler AT2110* is also

a compact and sturdy unit. It has been developed according to S. P. Radio A/S's patented principle, which has been thoroughly tested under all conditions, since it was introduced more than 15 years ago.

AT2110 is one hundred per cent waterproof, highly efficient, and with automatic tuning. The aerial coupler has a very low weight, so that it is possible to mount it at the base of the aerial – which is an indispensable condition in order to avoid loss of output power. AT2110 may be installed up to 100 metres from the transmitter.



SAILOR Compact HF SSB Radiotelephone can be mounted together with the other units in the SAILOR Compact 2000 programme.

The development of this radiotelephone has been based on the main philosophy behind SAILOR products: reliability, sturdy construction, simple installation and operation, and easy servicing.

