

# Sailor

**T124  
R110**

**MF-HF RADIO TELEPHONE**



**S.P. RADIO A/S · 9200 AALBORG SV**



**Dimensions:**

Height: 515 mm.

Width: 495 mm.

Depth: 250 mm.

# SAILOR T124 - R110

An up-to-date transistorised (apart from the PA stage) radio telephone (simplex and duplex) for optional SSB or DSB communication, in either case with a transmitter output of 140 watts PEP.

The built-in two-tone alarm ensures that the transmitter is instantly ready to send the international distress signal.

**– Modest Power Requirements**

The set has very low power consumption, only 1 ampere at 24 volts during receive periods or stand-by. When only the receiver is in use, the power consumption is approx. 500 mA at 24 volts.

**– Designed for Ease of Operation**

On the receiver, channels are selected by operating the push-button marked with the frequency in question.

On the transmitter, channels are selected by merely setting the channel selector and performing a simple aerial tuning operation.

To use the distress frequency (2182 KHz), the channel selector is set to DISTRESS; all other settings will then be carried out automatically.

**– Built-in AM Receiver**

- LW 150– 350 KHz
- NW 300– 535 KHz
- MW 700–1650 KHz
- SW 1600–4200 KHz

Direction finding on all bands.

**Specification:**

Radio telephone for maritime use in the following bands:

- 1.6–4 MHz Medium-frequency band
- 4–5.7 MHz High-frequency band
- 6 MHz High-frequency band
- 8 MHz High-frequency band
- 31 transmit and 35 receive Channels.

The set features an external power supply unit (285 × 150 × 250 mm) which connects to the transmitter through a single multicore cable fitted with a multiconnector.

The power supply is available for the following supply voltages:

- 12 volts DC Type N178
- 24 volts DC Type N179
- 110/220 volts AC Type N180

The receiver, transmitter and power-unit cabinets are of all-welded steel, treated with rust preventives and covered with grey/green nylon. Knobs, buttons and fittings are of deformation-resistant plastic and chromium-plated brass.

The transmitter, receiver and power unit can be mounted separately or as one assembly. The three units are connected together by means of multicore cables fitted with multiconnectors.

**Transmitter Aerial:**

The transmitter can be operated with nearly all kinds of aerial in common maritime use.

**Receiver Aerial (Duplex Installation Only):**

The receiver may either be connected to the transmitter aerial via the aerial relay incorporated in the transmitter or connected to its own aerial (duplex installation). The receiving aerial may be a wire or whip aerial at least 4 metres long.

## TECHNICAL DATA:

### TRANSMITTER:

**Output:** 140 watts PEP into aerial in all transmitting modes  
**Modulation:** 350–2700 Hz, with speech compressor  
**Frequencies:** 21 crystal-controlled frequencies between 1.6 and 4.2 MHz  
10 crystal-controlled frequencies in 4–5.7 MHz band,  
6 MHz HF band  
or 8 MHz HF band

**Frequency Stability:** Short-term: better than 20 Hz  
Long-term: better than 100 Hz

**Two-tone Alarm:** 1300 and 2200 Hz. Delay 45 sec.

**Current Consumption at 24 V DC:** Stand by: 1 A. Operation: 7 A (normal speech)

**Current Consumption at 12 V DC:** Stand by: 2 A. Operation: 14 A (normal speech)

**Current Consumption at 220 V AC:** Stand by: 0.2 A. Operation: 1 A (normal speech)

**Current Consumption at 110 V AC:** Stand by: 0.3 A. Operation: 2 A (normal speech)

### RECEIVER

#### PUSH-BUTTON CHANNELS:

##### Frequency Range:

23 channels in the range ..... 1.6–4.2 MHz  
12 channels in the range ..... 4–9 MHz

##### Frequency Stability:

Short-term stability ..... < 20 Hz  
Long-term stability ..... < 100 Hz

##### Selectivity:

6dB bandwidth ..... 2.4 KHz > 6 KHz  
60dB bandwidth ..... 4 KHz < 20 KHz

##### Sensitivity:

	SSB	AM
S/N = 10 dB .....	>1.5 $\mu$ V	4.5 $\mu$ V
IF attenuation .....		90 dB
Image attenuation .....	>80 dB at abt. 2.5 MHz	
Audio output .....		max. 5 W

#### TUNABLE AM RECEIVER:

##### Sensitivity:

On all bands better than ..... 5  $\mu$ V

##### Frequency Bands:

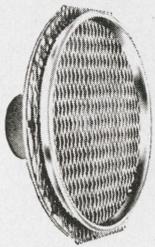
LW: 150–350 KHz  
NW: 300–535 KHz  
MW: 700–1650 KHz  
SW: 1600–4200 KHz

Direction finding on all bands.

Audio output: 5 W.

**Accessory  
Equipment  
for  
S. P.  
SAILOR T 124 - R 110**

# Sailor



**EXTENSION  
Speaker with Grille  
and Ring**

21-cm 10000-gauss speaker with dust-proof diaphragm. Lacquered protective grille, chromium-plated brass ring. Connecting cable and plug. For installation in existing bulkhead or cabinet.



**Extension Speaker**  
in plastic cabinet, with mounting clamps, cable, and plug.



**Headphones**  
While direction finding it can be advantageous to use headphones to exclude extraneous noise. Low-impedance phones are used as these are more rugged and moisture-resistant than conventional high-impedance phones.

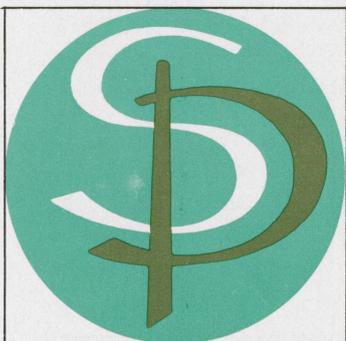


**Ferrite Navigator BK171**  
For use in small plastic or wooden craft. This ferrite direction finder is equipped with a detachable 0.5-metre sense aerial. This feature in conjunction with a 5-metre connecting cable and provisions for connecting headphones to the Ferrite Navigator makes operation outstandingly simple. Insensitive to heeling (sailing boats). The fixed-mounted bearing compass may also be used for optical compass direction finding. The Ferrite Navigator is not suited for use in metal vessels.



**Transformer Box FB175**  
For use in larger vessels in conjunction with SAILOR Type 26F or 26FA Direction-Finding Loop. The Transformer Box has provision for connection of sense aerial and headphones.

**DEALER:**



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