

SAILOR SATELLITE SYSTEMS

A breakthrough in communication



SAILOR SP4164A Mini-M Small but powerful



As the name suggests, the SAILOR SP4164A Mini-M is an extremely compact, inexpensive satellite communication system. Despite its diminutive dimensions, it is a system with far reaching potential from one of the leading and most experienced manufacturers of maritime communication equipment in the world.

SAILOR SP4164A features an elegant, easy-to-install transceiver in a robust all-aluminium finish and the world's smallest two-way maritime tracking aerial.

- World-wide mobile communication for voice, telefax and data communication through spot-beam coverage
- Connects via satellite to the international public telephone network
- Digital technology secures high voice quality and prevents unauthorized listening
- Complete with transceiver, battery charger, aerial and control unit
- Fast charger and spare battery packs as options



SAILOR

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TECHNICAL DATA

Inmarsat phone spot-beam operation. Meets or exceeds current and proposed specifications.

Be it high quality telephone calls, fax prints, data transfers or E-mail messages, the SAILOR SP4164A Mini-M provides you with total independence and global connection, to any destination in the world.

Designed as it is with a robust, all aluminium cabinet the SAILOR SP4164A meets all communications demands to a maritime telephone. It extends your coverage from GSM to practical all coastal waters of the world and the high seas on the Northern hemisphere.

The extremely small aerial and the very compact design of the below-deck transceiver unit makes installation of the SAILOR SP4164A convenient for a variety of vessels ranging from large coasters and fishing vessels to private yachts.

The SAILOR SP4164A can be operated in several ways: from a handset like a normal GSM telephone, from a 2-wire DTMF phone interface, from a connected fax machine or from a data port through Hayes AT command sets.

The 2-way tracking aerial has a diameter of only 21 cm, is 24 cm high, and may be located up to 70 m from the below-deck transceiver unit.

The SAILOR SP4164A transceiver unit offers a wide range of auxiliary inputs and outputs, e.g. for a remote bell and ignition control of power-on.

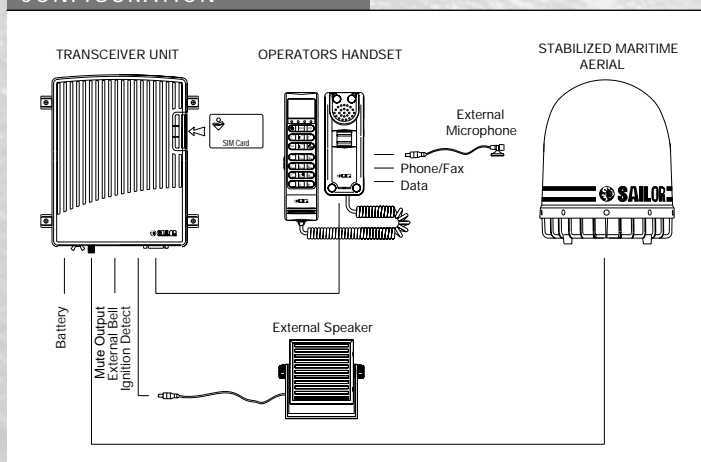
The flexible design of the handset/cradle unit allows for easy access to both fax, auxiliary phone and data connections. The elaborated configuration possibilities include locked telephone number directory service as well as a call log feature.

GENERAL

Aerial:	Sensor stabilized platform with directional RHCP aerial. No cable unwrap. Maximum pointing error of +/- 12°
G/T:	-17 dB/K at a minimum
EIRP:	8-14 dBW in 2 dB steps
Aerial cable:	TNC/TNC female, max. cable loss 15 dB at L-Band, 1.8W at DC
Operating Frequency:	Receive 1525.0-1559.0 MHz; transmit 1626.5-1660.5 MHz
Channel Spacing:	6.25 kHz
Rx Modulation:	5.6 kbps O-QPSK SCPC(voice/data/fax), 6 kbps BPSK TDM
Tx Modulation:	5.6 kbps O-QPSK (voice/data/fax). 3 kbps BPSK TDMA
Voice:	4.8 kbps AMDE (3.6 kbps voice/1.2 kbps FEC)
Async. Data Rate:	Max. 2.4 kbps
Phone Interface:	Two-wire 600 W CCITT Rec. G.473, standard DTMF telephones, RJ-11 jack
Fax Interface:	Two-wire 600 W CCITT Rec. T.30 Group-III Fax, max 2.4 kbps, RJ-11 jack
Data Interface:	Serial EIA standard RS-232E, Hayes compatible, max 19.2 kbps, DB-9 female connector
Printer Interface:	Serial EIA standard RS-232E, max. 19.2 kbps, DB-9 female connector
Hands free Microphone:	ø2.5 mm connector
Hands free Speaker:	32 W. ø3.5 mm connector
Ignition Controlled Power-on:	Opto-isolated input. PTR screw connector
External Ringer:	RS410-type-N open collector output. PTR screw connector
Mute Output:	RS410-type-N open collector output. PTR screw connector
SIM Card:	GSM like operation, ISO-7816
Power Supply:	10-32V DC floating, 20 W listening mode, and typical 40W speaking mode (max. 70W)
Ambient Temperature:	-25°C to 50°C operating, -40°C to 80°C storage
Relative Humidity:	95°C non-condensing at 40°C
Spray (EME):	Solid droplets from any direction
Icing (EME):	Up to 25mm of ice (no operation)
Precipitation (EME):	Up to 100mm/hour
Wind (EME):	100 knots (normal operation)
Vibration (EME):	4-10 Hz 2.54mm, 10-15 Hz 0.76mm, 15-25 Hz 0.40mm, 25-35 Hz 0.23mm
Shock:	Half Sine, 20g/11 msec

Specifications subject to change without further notice.

CONFIGURATION



STANDARD SUPPLY

Transceiver unit with handset and cradle. Stabilized aerial with 5m aerial cable.

OPTION

Aerial mounting bracket, hands-free loudspeaker, microphone kit, STU-IIB/STU-III software.

WEIGHT AND DIMENSION

Transceiver unit: 25mm x 211mm x 268mm, 1.3 kg (H x W x D, W)

MARITIME STABILIZED AERIAL:

210mm x 240mm, 2.2 kg (ø x H, W). Incl. FEU and connector

CRADLE FOR THE HANDSET:

160mm x 61 mm x 27mm, 0.15 kg (H x W x D, W)

HANDSET:

200mm x 52mm x 33mm, 0.25 kg (H x W x D, W)



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