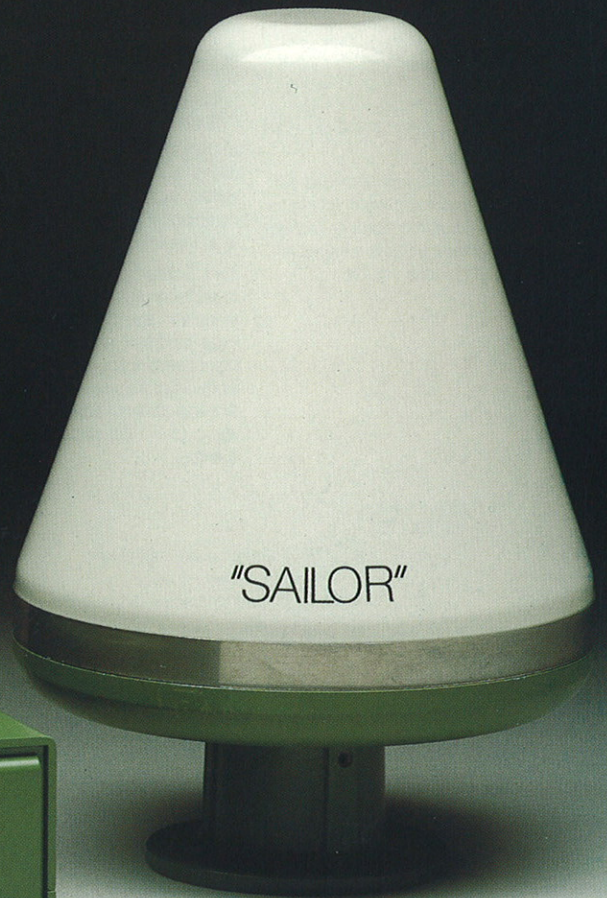


"SAILOR" STANDARD-C SATELLITE TRANSCEIVER



International telex	Global coverage
Automatic position transmission	Simple to operate
Switched data	Distress alerting
SafetyNET service	Small dimensions
FleetNET service	Low weight

"SAILOR" STANDARD-C SATELLITE TRANSCEIVER
S.P.RADIO A/S · AALBORG · DENMARK





GET IN TOUCH WITH "SAILOR" STANDARD-C SATELLITE TRANSCEIVER

INTRODUCTION

SAILOR Standard-C Transceiver is a digital messagebased, low cost communication system. The system operates through INMARSAT's satellite facilities and provides a private, worldwide 24-hour, reliable communication capability.

Potential users of SAILOR Standard-C system range from merchant ships to small vessels including fishing boats, supply boats, emergency and specialized crafts, and private yachts.

WHAT STANDARD-C CAN DO

SAILOR Standard-C Satellite Transceiver interconnects with international telex, teletex and packet switched data networks.

In addition to normal message handling the SAILOR Standard-C Transceiver supports the user with the enhanced group call (EGC) SafetyNET and FleetNET.

The SafetyNET service enables vital marine safety information such as weather forecasts, navigation warnings, coastal warnings, port and harbour messages, search/rescue emergency messages to be received and printed automatically on vessels operating in - or approaching relevant areas.

The SafetyNET satisfies a major requirement of the International Maritime Organization's Global Maritime Distress and Safety System (GMDSS).

The FleetNET service is intended for commercial use providing information - news, sport, commodity prices, current exchange rates, stock exchange reports, fleet paging and other database information.

The FleetNET can, for example, be used by a shipping company to send out company information to a selected group of ships simultaneously.

SYSTEM OPERATION

Messages can be fed into the satellite system, through the SAILOR Standard-C Transceiver, using any kind of electronic keyboard device, micro-computer or telex machine. The messages are transmitted from the Standard-C Transceiver, via the satellite, to a Coast Earth Station. At the Coast Earth Station a store-and-forward message switch prepares and relays the messages to their destination in whatever form is specified by the sender - telex, teletex, switched data etc.

In the opposite direction, messages received at the Coast Earth Station from public telecommunications networks are similarly stored and transmitted via the satellite to the approaching vessels.

TECHNICAL DATA

Antenna	Omnidirectional antenna, RHC polarized.
Figure-of-Merit (G/T)	- 23dB/K at 5° elevation.
EIRP	12 dBW minimum at 5° elevation.
Transmit Freq	16265-16465 MHz.
Receive Freq	15300-15450 MHz.
Channel Spacing	5 kHz.
Modulation	1200 symbols/sec. BPSK.
Ambiguity Resolution	Unique Word.
Coding	R 1/2 K-7 convolutional code, (interleaved code symbols).
Data Rate	600 bit/sec.
RX Frame Length	8.6 sec.
TX Signalling Access Mode	Slotted ALOHA.
TX Message Channel	TDMA & FDMA, interleaved code symbol.
Terminal Interface	CCITT Rec. V. 24/28, 9-pin female D-connector, 110-9600 Baud ITA-5 code, max. 100 meter cable.
Printer Interface	Standard parallel Centronics, 25-pole female D-connector, max. 4 meter cable.
Navigator & Alarm Interface	CCITT Rec. V.10 Special with NMEA 0183 interface and multidrop addressing, BNC-female connector, max. 100 meter cable.
Antenna Interface	Standard 50 ohm female N-connectors, max. 100 meter cable.

Solid-State Storage	256 kbyte RAM memory.
System Programming	EEPROM programming from operators terminal of installation set-up's.
DC Power Source	10.5-32Vdc, 15/50W.
Ambient Temperature	Electronics Unit, 0°C to 45°C operating, -20°C to 70°C storage. Antenna Unit, -35°C to 55°C operating, -40°C to 70°C storage.
Relative Humidity	96% non-condensing.
Spray	Solid droplets (AU).
Ice	Up to 2.5 cm (AU).
Principitation	Up to 10 cm/hour (AU).
Wind	Up to 100 Knots (AU).
Vibration	Electronics Unit, 2-15.8 Hz 1 mm peak, 15.8-100 Hz 1.0 g peak. Antenna Unit, 2-10 Hz, 2.54 mm peak, 10-100 Hz, 1.0 g peak.
Antenna Unit Mounting	Standard flange mounting with three 6 mm bolts, equally spaced on a 40 mm radius. Optional mast mounting brackets.
Electronics Unit Mounting	1/2 19" rack sized cabinet, flange mounting or optional 19" rack brackets.
Dimensions	Electronics unit H x W x D, 75 mm x 214 mm x 279 mm, antenna unit H x D, 279 mm x 190 mm (conical).
Weight	Electronics unit 3.5 kg, antenna unit 2.0 kg.



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