The compact key to safety

The SAILOR H2095C is a digital Ship Earth Station (SES) that fully complies with the Inmarsat-C system specifications and GMDSS requirements from one of the leading and most experienced manufacturers of maritime communication equipment in the world. The unique omnidirectional antenna is very effective and extraordinarily easy to install. Weighing less than 1 kg, it is suitable for installation on all vessels from pleasure craft to fishing boats and upwards.

- Full compliance with the GMDSS requirements and the FleetNet and SafetyNet services
- 2-way telex and data transfer to worldwide destinations, incl. compressed telex, X.25 and PSTN
- Automatic data and position reporting/polling
- Easy windows-oriented operation of all functions with standard interface to peripherals
- Hands-off commissioning and log-in with preferred ocean area scanning
- Extremely compact design and low power consumption
The compact SAILOR H2095C full GMDSS-compliant Inmarsat-C transceiver is the new choice for your global Inmarsat-C maritime communication links. It offers fast and reliable connections world-wide to any telex, data, e-mail subscriber or directly to or from another Inmarsat-C unit.

The rugged and extremely compact design of SAILOR H2095C makes it very attractive for use in GMDSS installations, and it enables fast, reliable and automatic transfer of vital information such as position reporting, data monitoring, messaging, catch reporting, fleet co-ordination, etc.

The SAILOR H2095C supports all Inmarsat communication modes, including telex, X.25, E-mail, and mobile-to-land fax services, as well as a new advanced “Connection” reporting format with multiple DNIDs, independent reporting timers and global ocean area pre-programming.

SAILOR H2095C is as standard being used with an aerial integrating both Inmarsat-C and GPS operation into one single unit. The advanced aerial design ensures trouble-free operations down to -15° elevation angles. Operation and control of the SAILOR H2095C may be performed via our dedicated GMDSS approved Dataterminal DT4646E, Hardcopy printers etc. according to the CN114 requirements.

Additional peripherals as ac/dc supplies with automatic switch over and remote alarm can be supplied for true GMDSS installations.

In addition, the transceiver includes a number of parallel control ports, standard NMEA navdata interface, and an advanced ArcNet local network interface for connection to onboard sensors, and thereby it meets all your interface requirements.

SAILOR H2095C can be delivered with an integrated 12-channel GPS receiver. The 12-channel integrated GPS has been designed as the ideal choice for automatic position, distress and data reporting via the Inmarsat-C system.

### GENERAL SPECIFICATIONS:

**MARITIME ANTENNA:**
Inmarsat-C/CGPS omnidirectional antenna, HHC polarized, 87/1 - 23 dB/K, EIRP 14 dBW at 5° elevation, Coverage +90° to -15°

**TRANSMIT FREQUENCIES:**
1626.5-1660.5 MHz.

**RECEIVE FREQUENCIES:**
Inmarsat C 1525.0 MHz to 1559.0 MHz. GPS 1575.42 MHz

**CHANNEL SPACING:**
1.25/2.5/5 kHz

**MODULATION:**
1200 symbols/sec. BPSK

**DATA RATE:**
600 bit/sec

**MAXIMUM TRANSMISSION LENGTH:**
Max. 32 Kbyte

**ANTENNA INTERFACE:**
Standard NMEA female TNC (transceiver), female TNC (antenna)

**TERMINAL INTERFACE:**
Serial EIA-232-E 110-38.400 Baud IA-5 code, DB-9F connector

**PRINTER INTERFACE:**
Standard parallel Centronics, DB-25F connector

**PARALLEL I/O:**
RS-410 4-bit open collector input/output and 2-bit input

**ARINC INTERFACE:**
ATA/ANSI 878.1 2.5Mbit token based, twisted pair

**GPS MODULE:**
12-channel GPS tamper proof PC-board, 1 sec. update rate, 15 m RMS accuracy (100 m with S/A), 0.2 m RMS velocity accuracy

**SLEEP-MODE:**
Timer and event programmable modes; total system power consumption with the following reporting intervals: 1.14W/15 min., 570 mW/30 min., 280 mW/1 h, 140 mW/2 h, 60 mW/5 h, 30 mW/10 h

**SOLID-STATE STORAGE:**
512 kbyte Flash and 256 kbyte SRAM

**DC POWER SOURCE:**
10-32 V floating DC 4.8/81 W RX/TX (with GPS module)

**AMBIENT TEMPERATURE:**
Electronics Unit, -25°C to 55°C operating, -40°C to 80°C storage.
Antenna unit, -35°C to 55°C operating, -40°C to 80°C storage

**SOLAR RADIATION:**
1200W/m² max. flux density

**RELATIVE HUMIDITY:**
95% non-condensing at 40°C

**ICE:**
Up to 25 mm (EME)

**PRECIPITATION:**
Up to 10 cm/hour, droplet size 0.5-4.5 mm (EME)

**WIND:**
Up to 200 km/hour.

**VIBRATION OPERATIONAL:**
Random 5-20 Hz 205g(2)Hz. 20-150 Hz < 3 dB(Oct. (0.5 g rms).

**SHOCK:**
Half sine, 20 g/11 ms

**ANTENNA MOUNTING:**
(Marine) Standard 1" tube mounting

**TRANSCiever UNIT MOUNTING:**
Flange mounting, vertical or horizontal

**DIMENSION:**
Transceiver unit; 50 mm x 180 mm x 165 mm (HxWxD). Antenna unit (basic); 124 mm x 150 mm conical (HxD)

**WEIGHT:**
Transceiver unit 1.3 kg Antenna unit 0.75 kg

Specifications subject to change without further notice.