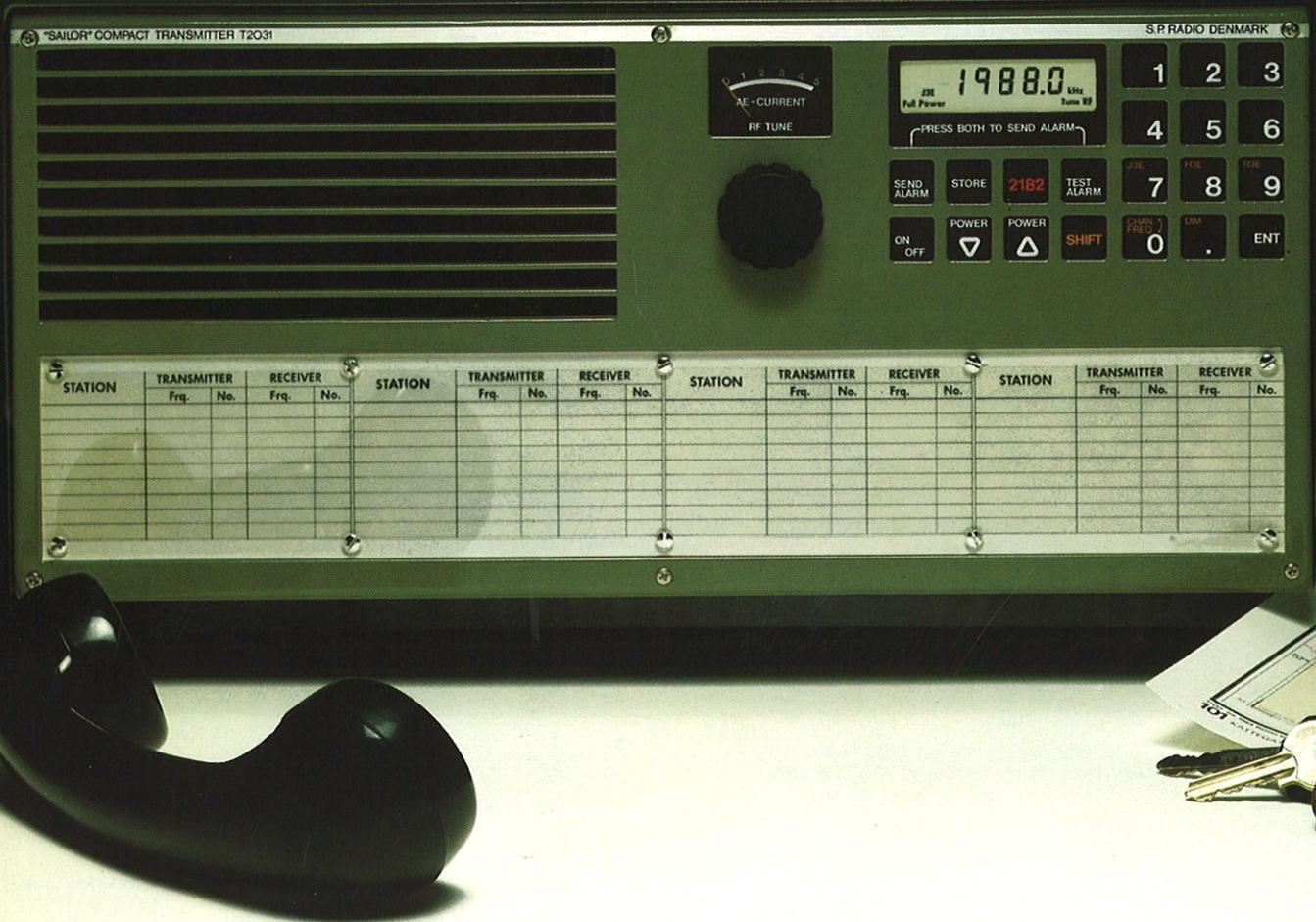


"SAILOR" COMPACT TRANSMITTER T2031



SSB TRANSMITTER - 400 WATT PEP

The SAILOR T2031 SSB transmitter forms part of the new, revolutionary Compact 2000 programme from S.P. Radio - the leading producer of maritime radio communication equipment in Europe.

The SAILOR T2031 is an advanced, microprocessor-controlled, coast telephony transmitter with an extremely high transmitting output of 400 Watts.

The compact, nylon-treated, metal cabinet contains the powerful transmitter, switch-mode power supply and antenna relay.

Its 94 quick-select frequencies, keyboard controls, LCD display and single-handed antenna tuning make the SAILOR T2031 simple and quick to operate.

"SAILOR" COMPACT T2031

S.P. RADIO A/S · AALBORG · DENMARK



"SAILOR" COMPACT T2031

DESCRIPTION

Compact 2000

The SAILOR SSB coast telephony transmitter T2031 forms part of the large and newly-developed SAILOR Compact 2000 programme. The various units in the programme can either be installed separately or be combined in order to satisfy any communication need. A flexible series of mounting brackets makes it possible to install the T2031, and the other Compact 2000 units, exactly where desired: on the deckhead, bulkhead, table top or console.

400 W SSB Transmitter

The ability of the transmitter to generate and deliver to the antenna the maximum permissible 400 W is one of the things that ensure clear, long range communication.

The SAILOR T2031 is a microprocessor-controlled SSB transmitter with an assured optimum output of 400 W under all operating conditions. The T2031 is provided with a built-in,

compact, modern, switch-mode power supply, which compensates for the wide variations of voltage always found on ships' batteries. The maximum output of 400 W will therefore be available under all power supply conditions.

The T2031 employs a very simple and easy-to-operate method of antenna tuning, which can supply 400 W to the antenna, even under very varied antenna circumstances.

Operation

The SAILOR T2031 is operated by means of a keyboard equipped with membrane switches. Finger-guide control and night illumination ensure certainty of operation even under difficult conditions. The antenna can be tuned with only one hand by pressing in the knob and then adjusting it for maximum antenna current.

Frequency Selection

Frequency generation is fully synthesized and frequency selection is by means of the keyboard in the frequency range 1.6 MHz to 4.3 MHz. The transmitter can be pre-programmed with up to 128 permitted frequencies. It can also be pre-program-

med for free frequency choice in the range 1.6 MHz to 4.3 MHz, if the operator has permission for this.

Quick-Select Register

The operator can store up to 94 of the permitted frequencies in the transmitter EEPROM memory. Quick selection of these frequencies is carried out from the keyboard by keying-in the required quick-select number from 1 to 94.

Installation

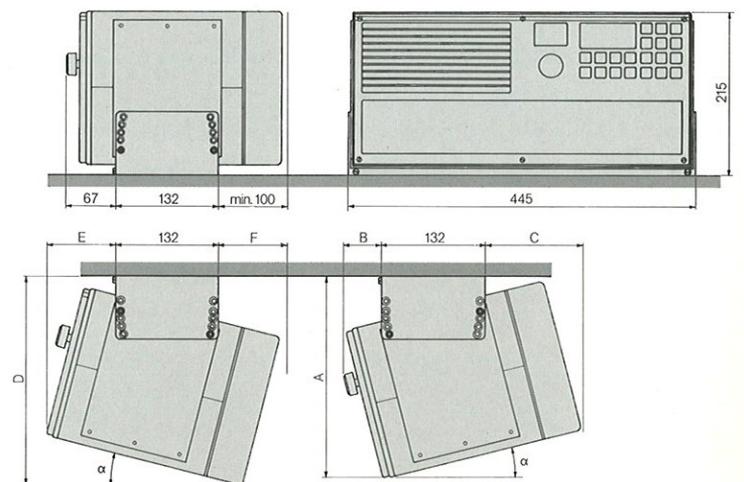
The compactness of the T2031 and a flexible series of mounting brackets simplify the installation of the transmitter in any desired position.

An antenna relay for switching between transmitter and receiver in the case of simplex installation is built-in. Pre-tuning of the transmitter is microprocessor-controlled and can therefore be carried out quickly and easily without the necessity of tools.

UNIVERSAL MOUNTING BRACKET H2056

permits a wide variety of installation possibilities such as on table top, bulkhead or deckhead. For other possibilities such as console installation, the SAILOR 19" rack or all units in

the Compact programme assembled on the bulkhead, see special information concerning installation of the Compact programme.



α	A	B	C	D	E	F
0°	230	67	105	230	67	105
4.8°	243	67	117	245	72	105
9.6°	255	65	130	262	78	103
14.4°	265	62	143	270	89	100

Dimensions in mm

TECHNICAL DATA

SAILOR T2031 complies with SOLAS-ITU-CEPT-UK MPT-DOC-FTZ specifications as well as other national requirements.

Frequency Range: 1600 kHz - 4300 kHz

Frequencies 128 programmed frequencies

Quick-Select Register: .. 94 operator-programmed quick-select frequencies

Frequency Stability: 0-40° C less than ± 20 Hz

Modes of Operation: J3E - H3E - R3E

Distress Call: Automatic H3E mode on 2182 kHz.
Two tone alarm: 1300 and 2200 Hz with a duration of 45 sec.

Modulation Band Width: 350-2700 Hz with compressor

Output Power: 400 W PEP

Intermodulation: Better than -34 dB

Hum and Noise: Less than -60 dB

Harmonic and Spurious: Better than -50 dB

Output Power Reduction: Three steps of 3 dB each

Power Supply: 24 V DC -10 % to +30 %

Power Consumption: Transmitter unkeyed 24 Watt
Two tone 750 Watt
J3E normal speech 350 Watt

Operational Temperature

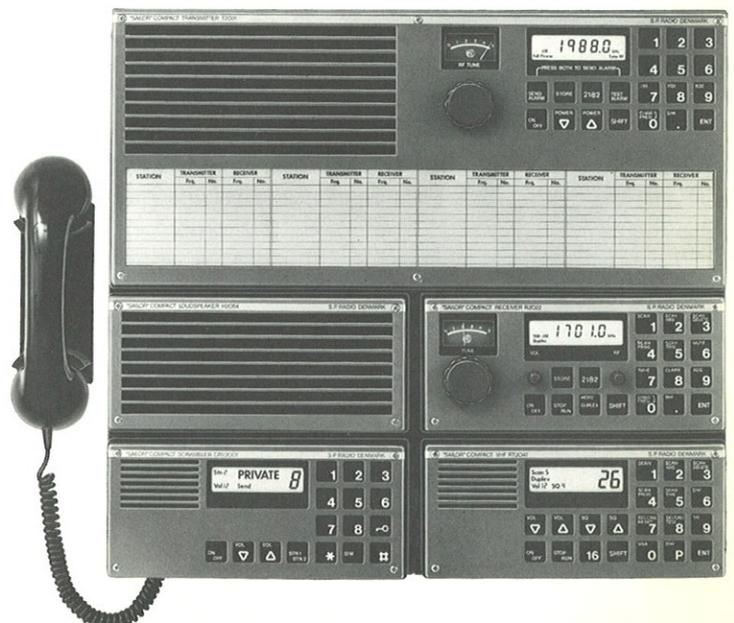
Range: -15° C to +55° C

Aerial Length: 8 - 16 m

Weight: Transmitter T2031: 18 kg
Mounting Bracket H2056: 2 kg

Compact 2000 Radiotelephone Station

consisting of: 400 W SSB transmitter T2031 ● SSB-AM-FM receiver R2022 ● Hi-Fi loudspeaker H2054 ● VHF radiotelephone RT2047 ● Scrambler CRY2001 ● Full DUPLEX communication with long range and facility for carrying on conversations in secrecy. See the special brochures.



S.P. RADIO A/S

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