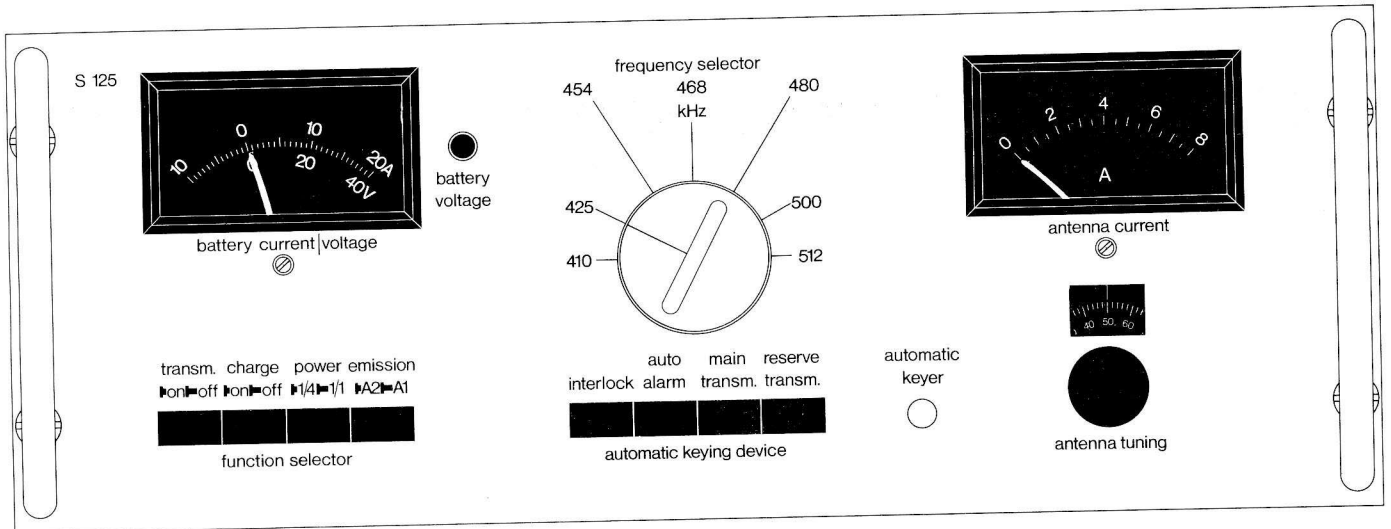


dansk radio aktieselskab



Reserve Radiotelegraph Transmitter

elektromekano S125

all solid state

no warm-up time

compact modular construction

built-in automatic alarm signal keyer

built-in automatic charging facilities for emergency battery

extremely simple operation - also by unskilled persons

Complying with the applicable rules
in the Radio Regulations, Geneva 1967,
and SOLAS, London 1960

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Reserve Radiotelegraph Transmitter ELEKTROMEKANO Type S 125 is a crystal-controlled, 7 frequency unit, featuring full solid-state circuit design.

It will deliver as much as 70 watts of either unmodulated (A1) or modulated (A2) radio frequency (r.f.) power to suitable wire-fed antenna. This power level may be reduced to 1/4 of full value for transmitter testing, tune-up or reduced power operation.

An automatic keying device is incorporated into the design of the S 125, it provides a means for testing the ship's Auto Alarm Equipment as well as enabling transmission of the International Radiotelegraph Alarm Signal by either the ship's Main Transmitter or the S 125 Reserve Transmitter, itself.

Special protection is provided for the S 125's internal circuitry in the event of unusual load conditions at the transmitter's antenna terminals, - this ensures full internal circuit protection even under very extended and severe antenna mismatch conditions.

Mechanical design of the S 125 is of the highest quality. Extensive use of the latest modular construction techniques makes the S 125 transmitter exceptionally compact and rugged -- it will stand up to the most demanding environmental conditions. (Special treatment of component parts, including special insulation and impregnation makes the S 125 ideally suited for tropical and arctic service).

Ultra-modern design is apparent in the lay-out of the S 125's controls and metering devices. The clean-lined styling and simple, straight-forward panel arrangement makes the S 125 Reserve Radiotelegraph Transmitter both attractive in appearance and easy to operate.

SPECIFICATION

Circuit:	6-stage crystal-controlled transmitter
Type of Emission:	Unmodulated telegraphy A1 Modulated telegraphy A2
Power Output:	R.F. Power of Output Stage max. 75 watts. Reducable to 1/4 level.
Antenna:	Antenna Impedance: 250 to 750 pF and 1.9 to 4 Ω .
Frequency Adjustment:	The 7 different pre-set frequencies are selected by a single control knob. A separate control knob is provided for fine-adjusting the antenna tuning circuit.
Frequency Stability:	The frequency stability is greater than that required by the International Radio Regulations, i.e. better than $\pm 200 \times 10^{-6}$ Hz.
Attenuation of R.F. Harmonics:	Better than the attenuation of radio-frequency harmonics recommended by the International Radio Regulations, i.e. better than 40 dB.
Modulation Frequency:	Approx. 1000 Hz. Depth of modulation is normally adjusted to approximately 80 %.
Power Supply:	The transmitter is designed to operate from battery. (Contains battery charging circuit).
Power Consumption:	Stand-by load approx. 8 W Operation load approx. 270 W

DIMENSIONS AND WEIGHT.

Height: 178 mm (7")
Width: 483 mm (19")
Depth: 378 mm (14 7/8")
Weight: approx. 20 kg

(All data are subject to possible alterations of design).