

Portable

Lifeboat Radiotelegraph Sender and Receiver

flektromekano Type SM 108 KN 2



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ELEKTROMEKANO's portable lifeboat radiotelegraph sender and receiver TypeSM108KN2has been developed and constructed to fulfil the applicable requirements of the International Convention for the Safety of Life at Sea, 1948, and the Atlantic City Radio Regulations.

The Type SM108 KN2 lifeboat radio equipment consists of a radio sender and receiver and a hand-driven generator, all contained in a compact, watertight metal box which is capable of floating on sea water and also of being dropped into the sea without suffering any damage. The box, which also contains the necessary antenna material and other accessories, is finished in a chrome yellow, which makes it easily perceptible on the sea surface.

As the sender is fitted with an automatic keying device for the sending of the Alarm Signal, the Distress Signal and two long dashes for D.F. purposes, it can easily be operated by an unskilled person with no knowledge of the Radio Code, and everything that might complicate the operation has been avoided in the design of this equipment.

Reliable visual indicators are provided to indicate antenna resonance for each operating sending frequency.

Specifications.

Sender.

00.100

2-stage crystal-controlled sender, comprising 3 tuned

R.F. circuits.

Type of Emission:

Modulated telegraphy A2.

Anode Input:

Circuit:

The input to the anode of the final stage exceeds

10 watts.

Power Output:

3 watts (mast antenna).

4 watts (kite or balloon antenna).

Frequencies:

500 kc/s. and 8364 kc/s. (crystal-controlled).

The sender fulfils the applicable requirements of the Frequency Stability:

Atlantic City Radio Regulations.

A modulation frequency of about 500 c/s. is obtained Modulation:

from a chopper wheel connected to the generator

shaft. Depth of modulation greater than 70%.

Cathode keying of the final stage. Keving Method:

one EF 93 (6BA6)

Crystal oscillator one EL 90 (6AQ5) Final stage

Power Supply: Hand-driven generator supplying:

> 325 volts (H.T.) 6.3 volts (L.T.)

325 volts 55 milliamps. Power Consumption:

Valves:

6.3 volts 0.75 amp.

Receiver.

500 kc/s.: 3-valve straight-receiver comprising 2 R.F. Circuit:

amplifying valves, 1 germanium diode detector and

1 output valve.

8 Mc/s.: 3-valve superheterodyne receiver (I.F. 500 kc/s.) comprising 1 mixer valve, 1 l.F. amplifying valve, 1 germanium diode detector and 1 output and B.F.O.

valve (double system).

500 kc/s.: Telegraphy types A 2 and B. Types of Reception:

8 Mc/s.: Telegraphy types A 1 and A 2.

The receiver is pre-tuned to 500 kc/s, and capable Frequencies:

of manual tuning between 8266 kc/s, and 8745 kc/s.

On 500 kc/s. better than \pm 1 kc/s. between Frequency Stability:

-15°C and +55°C.

Better than 100 µV for a power output of 1 mW in Sensitivity:

500 Ω (equal to the impedance of the headphones

at 1000 c/s).

Selectivity: 500 kc/s.: Within the band 490-510 kc/s. max.

6 dB attenuation. Outside the band 460-540 kc/s.

min. 40 dB attenuation.

Valves: One EK 90 (6BE6), one EF 93 (6BA6) and one

ECC 91 (636).

Power Supply: The hand-driven generator supplies power for the

receiver as well as for the sender.

Power Consumption: 325 volts 25 milliamps.

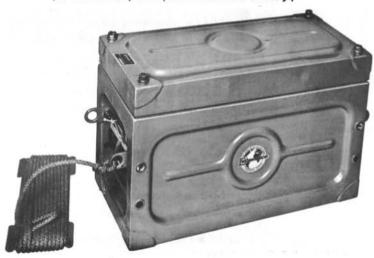
6.3 volts 1.05 amps.

Dimensions: Sender and Receiver Unit:

Height: 35 cm Width: 29 cm Length: 58 cm

Weight: 27 kg

(All data are subject to possible alterations of design)



SM 108 KN2 complete, i. e. all accessories included.

RADIO EQUIPMENT AND RADIO NAVIGATIONAL INSTRUMENTS

DANSK RADIO AKTIESELSKAB

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ELEKTROMEKANO 1/s

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