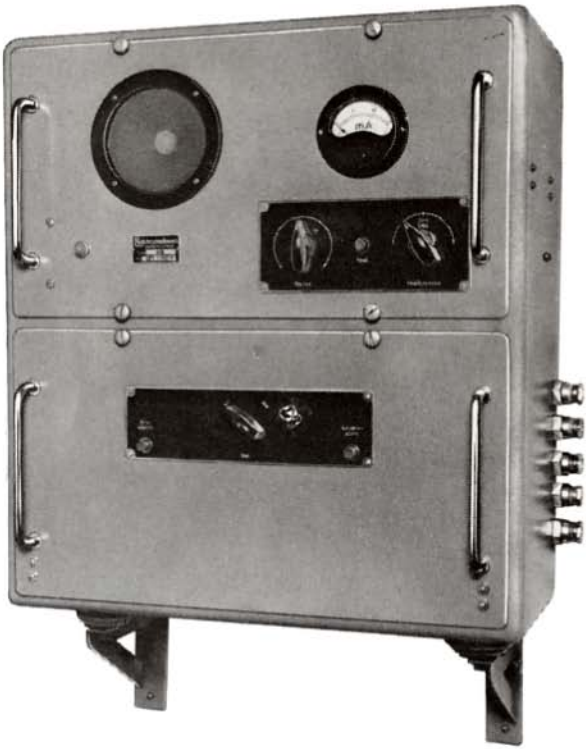
Auto Alarm

Elektromekano Type A 6



Auto Alarm

Type A 6

ELEKTROMEKANO's Auto Alarm Type A 6 is a highly efficient instrument designed to be operated by the alarm signal in accordance with the requirements of the International Convention for the Safety of Life at Sea, 1948. It is pre-tuned to the 500 kc/s. radiotelegraph distress frequency for registering alarm signals and, furthermore, it is designed to operate as a loudspeaker watch receiver on the same frequency ("Stand-by Receiver").

The equipment consists of a receiver (including the "Stand-by" part) and a selector, which, when operated by an alarm signal, or in the event of failure of the apparatus, will cause a continuous audible warning to be given in the radiotelegraph operating room, in the radio operator's cabin and on the bridge

The receiver and the selector are each built up on a rigid aluminium chassis, both contained in a sturdy, welded steel cabinet, finished in durable, grey cellulose, the receiver being placed in the upper part and the selector in the lower.

The coaxial cable plug for Antenna and Ground is located on the left-hand side of the cabinet near the top, while the cables for power supply, alarm bells, bell battery and, if required, automatic keying device (ELEKTROMEKANO's Alarm Signal Keyer Type AT 1) are led into the cabinet on the right-hand side.

The auto alarm unit is equipped with anti-vibration mountings and fixed on a sturdy, welded rack.

Specifications:

Receiver.

Circuit:

$5^1/_2$-valve receiver,
3-valve noise limiting gain control,
2-valve A.F. amplifier for "Stand-by Receiver" and
1-valve test signal oscillator.

Type of Reception: A_2: 30—100 % modulation.

Frequency Range: The receiver is pre-tuned to 500 kc/s.

Bandwidth: ± 8 kc/s. from 500 kc/s.

Selectivity & Sensitivity: The auto alarm apparatus fulfils the requirements of the International Convention for the Safety of Life at Sea, 1948, Chapter IV Regulation 11.

Valves:

Receiver:

1. 1st. R.F. amplifying valve ..... Type EF 9
2. 2nd. R.F. amplifying valve ..... - EF 9
3. Signal rectifier & A.F. amplifying valve - EBC 3
4. A.F. amplifying valve ..... - EBC 3
5. Relay controlling valve ..... - EL 2

Test Oscillator:

6. Oscillator valve ..... - ECH 3

Noise Limiting Gain Control:

7. Cathode follower valve ..... - EBC 3
8. Timing valve ..... - EF 9
9. Limiting valve ..... - EB 4

"Stand-by" Amplifier:

10. A.F. amplifying valve ..... - EBC 3
11. Output valve ..... - EL 2

Selector.

Circuit: 3 valves with timing grid circuits coupled to a system of relays.

Relay System: This consists of input relay, intermediate relay, timing relay "Dash Min.", timing relay "Space", timing relay "Dash Max.", counting relays (8), delaying relay, releasing relay and alarm relay.

Valves:	Three Type EL 2.
Power Requirements:	Receiver & Selector. The equipment is designed to operate on 110-volt D.C. mains. For use on a higher D.C. voltage, a suitable series resistance is provided.
Power Consumption:	0.65 amp.
Dimensions:	Receiver & Selector Unit: Overall Height: 72 cm – Width: 57 cm – Depth: 29 cm
Weight:	33 kg.

(All data are subjet to possible alterations of design)