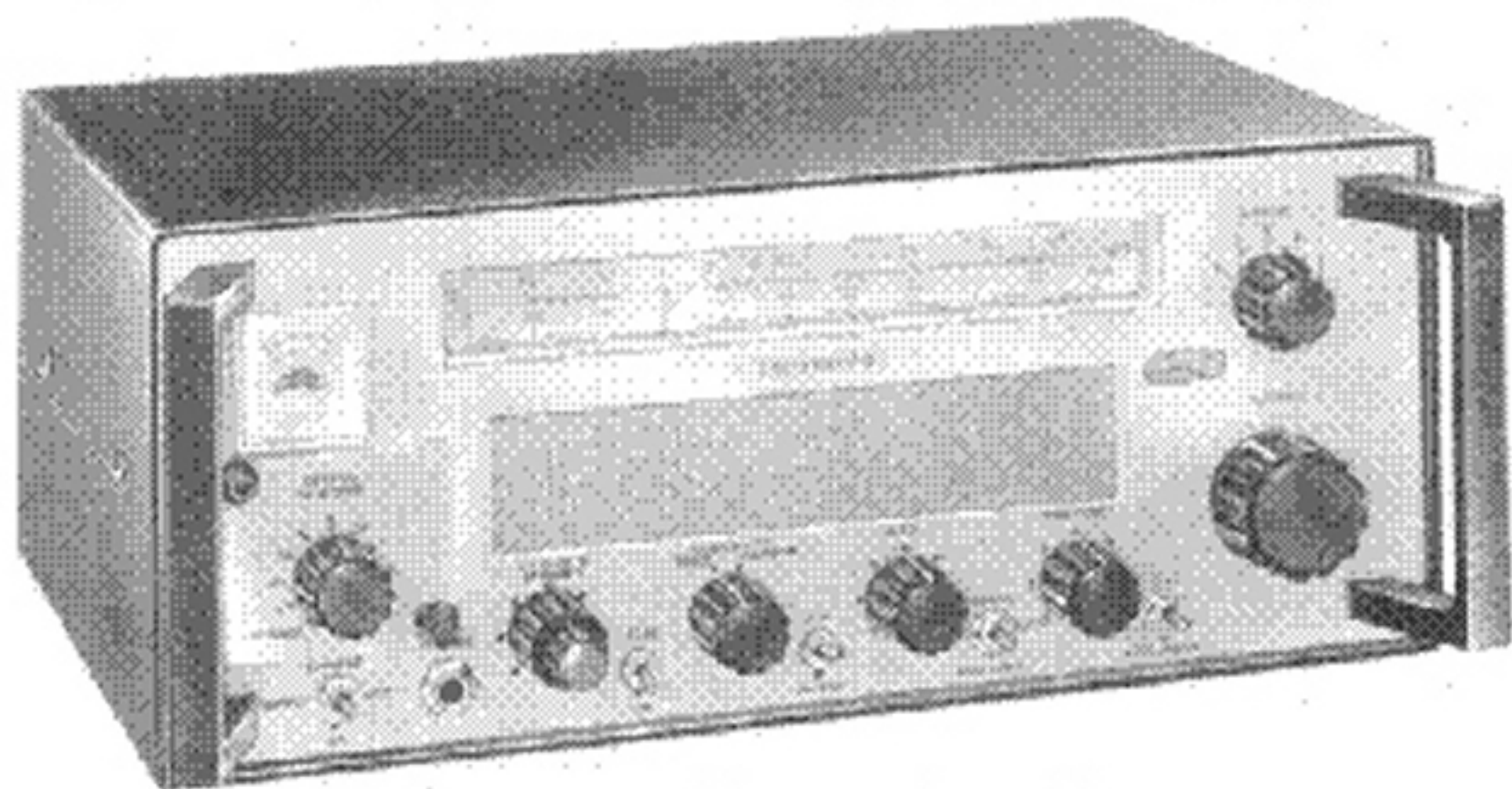


# Eddystone

## GENERAL-PURPOSE HF/MF COMMUNICATION RECEIVERS MODELS 1000 & 1001



550kHz - 30MHz

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Manufactured in England by

**Eddystone Radio Limited**

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Telephone: 021-475 2231

Cables: Eddystone Birmingham    Telex: 337081



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# General-Purpose HF/MF Communication Receivers

1000

1001

**General Description** Eddystone Models 1000 and 1001 are compact general-purpose communication receivers with reception facilities for CW, MCW, AM and SSB transmissions in the frequency band 550kHz to 30MHz. The two receivers are identical in all respects except that Model 1001 has provision for crystal-controlling the local oscillator for spot frequency working in the band from 1.6MHz to 30MHz. Up to ten crystal-controlled channels can be accommodated with manual tuning of the front-end circuits. Crystals can be fitted without removing the outer covers.

Internal power units are fitted for operation from standard 40-60Hz AC supplies and a rechargeable nickel-cadmium battery is incorporated for emergency working in the event of mains failure. A socket is provided to allow connection to an external 12V battery for continuous operation at sites where an AC supply is not available. All forms of battery arrangement can be employed irrespective of earthing polarity.

An advanced single-conversion design is employed using a mixture of solid-state devices including IC's and PET's. The RF Amplifier utilises the cascode configuration for best two-signal performance and this is maintained in the Mixer which uses a dual-gate MOSFET. Input protection is provided and a desensitizing facility is available for use when the receivers are operated in conjunction with an associated transmitter.

The IF Section is designed around an integrated circuit with switched high-grade multi element ceramic ladder filters at 455kHz: a separate detector with tunable BFO is provided for CW and SSB reception. AGC is permanently connected to the RF Stage but the IF Amplifier can be manually controlled when required: AGC time constant is selectable to suit signal mode.

A second integrated circuit is utilised in the Audio Section which provides output to a pair of miniature loudspeakers situated at the rear of the front panel. Telephones can also be connected, the circuit being arranged so that the loudspeaker output is interrupted when these are in use.

Frequency calibrations for tuning are marked on a horizontal scale drum which displays each range separately. Scale length is of the order 165mm (6.5in) on each range and a secondary scale below the main calibration can be used in conjunction with a vernier dial to provide a useful logging facility. Dial illumination is provided but this can be switched off to conserve power when operating from the internal battery pack. Tuning is by means of a flywheel-loaded reduction drive.

Other features common to both receivers include a separate fine tuning control and a carrier-level meter which can be switched to monitor the state of the internal or external batteries.



Model  
1001