



*Type H2301 h.f. receiver from Marconi.*

## **High-stability H.F. Receiver**

A GENERAL-PURPOSE communications receiver covering the frequency band 500 kc/s to 30.5 Mc/s is now available from the Marconi Company. Known as the Type H2301, it is an Eddystone receiver modified to meet the Marconi specification for s.s.b. and f.s.k. operation. The frequency range is covered in 30 steps of 1 Mc/s with an overlap of 100 kc/s. The dial calibration, which is within 1 kc/s, is linear and presented on separate Mc/s and kc/s scales. Calibration can be checked by means of an internal 100 kc/s crystal oscillator.

Double conversion techniques are used in this receiver, with crystal control of the first local oscillator to provide an above average stability figure for this class of receiver. (Within  $\pm 20$  c/s with constant mains supply and ambient temperature.) The second i.f. operates at 500 kc/s and a cathode follower is incorporated to provide an output at this frequency for connection to ancillary equipment. The receiver has an internal loudspeaker as well as a number of separate audio outputs with independent gain controls. An all transistor f.s.k. adaptor is available for this receiver and caters for shifts of from 200 to 850 c/s at telegraph speeds of up to 100 bauds.