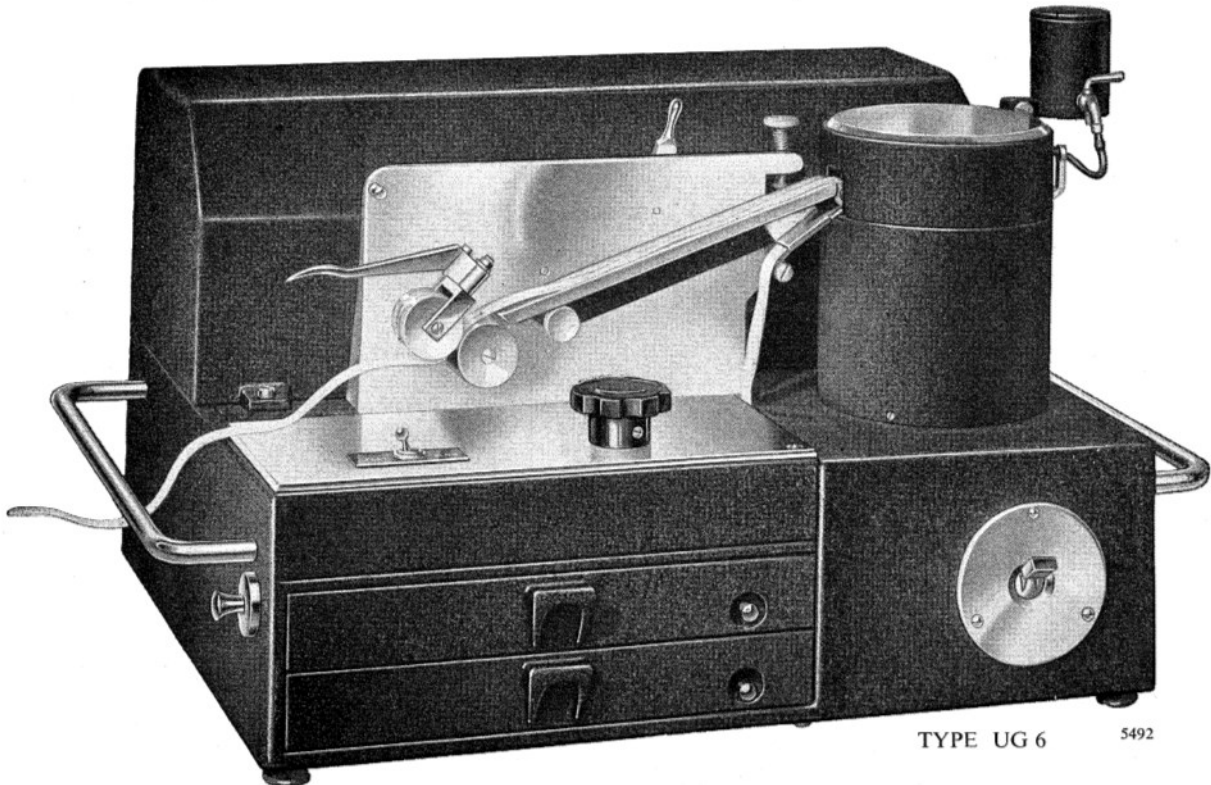




High Speed Undulators

Type UG6 and Type UG8



TYPE UG 6 5492

THE TYPES UG6 and UG8 undulators have been developed to meet the most exacting demands of continuous working at high speeds on commercial wireless and landline telegraph services.

The instruments are of the moving-coil type designed for double-current working. Two types of coil winding are available. One has a low resistance of approx. $20+20 \Omega$ designed for use with the transformer output of the Marconi Type RB 150/2 Recording Bridge (see page 275), and giving a maximum working speed of 280 bauds.

The other is a high-resistance coil (approx. $1000+1000 \Omega$) for connection to the direct output of the Type RB 150/2 giving a maximum working speed of 240 bauds, or if connected *via* a high-speed relay, a maximum working speed of 280 bauds. The speeds quoted refer to the UG 6, the UG 8 being about 40 bauds slower because of the extra length of the pen.

The recording-pen head, a motor-driven tape-pulling device, and a speed-control rheostat are mounted conveniently on a base which carries

either a single or a double drawer holding the tape reels. An ink reservoir feeds by gravity the thin tube which carries the ink to the paper, and the moving coils are attached *via* levers, to this tube. Damping devices avoid any ragged effect on the record which might otherwise be caused by the syphon tube and arm recoiling from the stops.

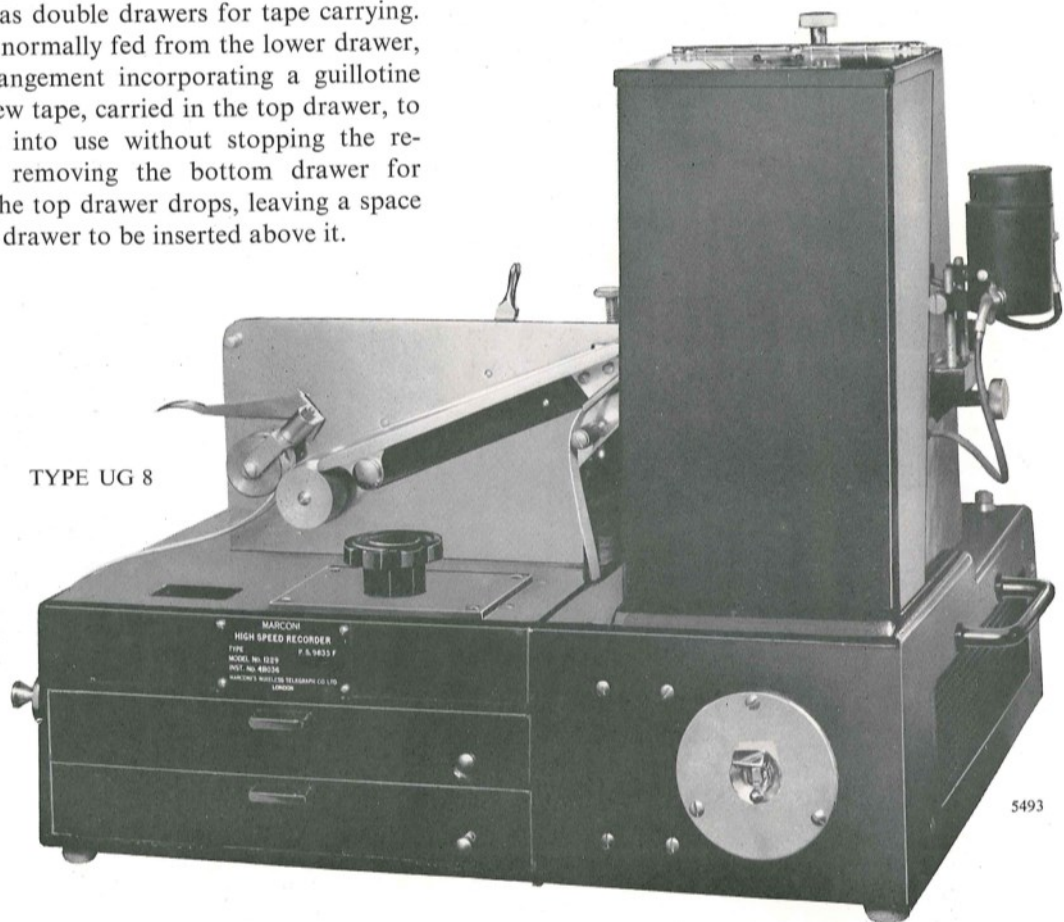
Three separate editions of each type of undulator are available, working from 110 or 220 V DC mains or 220-240 V AC mains.

Type UG 6

This is a single-pen recorder mounted on a metal base, and has double drawers for tape carrying. The tape is normally fed from the lower drawer, and an arrangement incorporating a guillotine enables a new tape, carried in the top drawer, to be brought into use without stopping the recorder. On removing the bottom drawer for reloading, the top drawer drops, leaving a space for the new drawer to be inserted above it.

Type UG 8

This model is similar to the UG 6 with the difference that a special head is mounted carrying two independent pens both recording on the same tape. This facility covers special requirements where it is desired to monitor both incoming and outgoing signals at a cable office, and an immediate comparison between the two is given on the record. A useful comparison could also be made in a wireless link between the line signal and the signal from a check receiver tuned to the transmitter frequency.



Marconi

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