



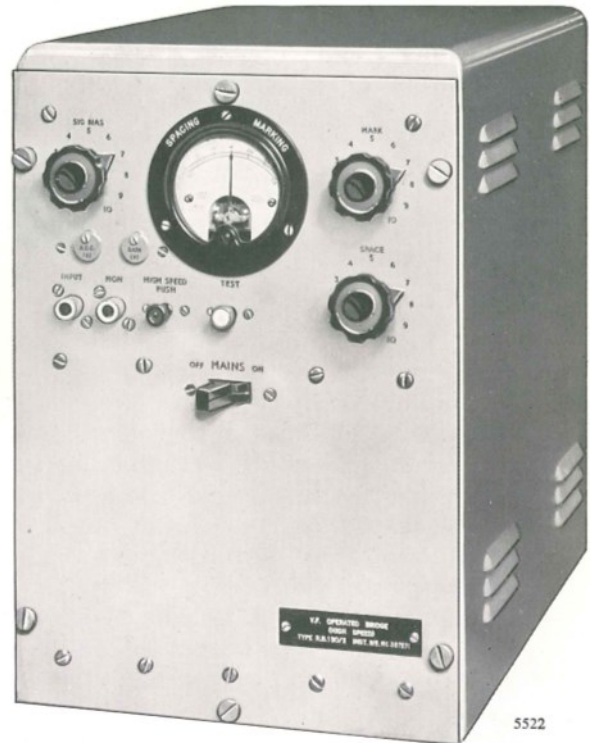
## Recording Bridge Type RB 150/2

THE RECORDING BRIDGE Type RB 150/2 is designed for the purpose of converting the AF signal from a receiver or telegraph line into positive and negative DC pulses capable of operating an undulator, teleprinter, tone-sender, or relay. For example, a message might be directly recorded locally on a teleprinter and sent simultaneously to the central telegraph office by means of a tone-sender.

Recording speeds of up to 280 bauds can be achieved over wide ranges of signal strength and mark and space currents of up to 60 mA are obtainable.

The bridge is simple in operation and its use calls for no specialised knowledge of telegraph recording practice. It can be handled by operators normally employed on aural reception using general-purpose receivers. It embodies circuits for AF amplification, filtering, rectification, limiting, smoothing, automatic gain control (which assists in suppressing interference) and the necessary DC amplification. A low-pass filter is included in order to provide additional selectivity to that of the receiver and the frequency of the input signal should lie between the limits 500 c/s and 2000 c/s.

A signal bias control is provided which gives a simple method of obtaining a 'neutral' tape from malformed incoming signals. A jack is included for headphone monitoring of the input signal.



The mark condition may be set up by means of a test key and the output current is recorded on a centre-zero milliammeter.

The bridge and power supply unit are built on two decks, one above the other, fixed to the front panel. The assembly slides into a ventilated case and is fixed by six knurled screws; all terminals project through slots at the back and are provided with safety covers. The apparatus is finished in grey cellulose enamel and all controls are clearly engraved.

## DATA SUMMARY

**Input:** Minimum level:  $-15$  dbm (at 1000 c/s).

Recommended normal level: 0 dbm from either a single receiver or diversity receivers, either locally or over a line. The input impedance can be set for 600 or 5000  $\Omega$ .

**Speeds:** 240 bauds into 1000  $\Omega$  undulator; 280 bauds into 20  $\Omega$  undulator; 280 bauds into 30  $\Omega$  relay; with mark and space currents of up to 60 mA and assuming an ideal input signal.

**Unwanted signal attenuation:** The attenuation of an unwanted signal at 6000 c/s is about 27 db.

**Power supply:** 200–240 V, 50 c/s, single-phase AC mains.

**Dimensions:**

Height	Width	Depth	Weight
12 $\frac{3}{4}$ in.	9 $\frac{1}{2}$ in.	15 $\frac{1}{2}$ in.	50 lb
(32.4 cm)	(24.2 cm)	(39.4 cm)	(22.7 kg)

**Marconi**

**MARCONI'S WIRELESS TELEGRAPH COMPANY LIMITED**

*Head Office: Marconi House, Chelmsford*

*Telephone: Chelmsford 3221. Telegraphic Address: Expanse, Chelmsford*