

A.M Base Station

RC760/TR

Features

- Rugged rack or cabinet mounting units**
- Separate withdrawable transmitter and receiver**
- 25W power output**
- Suitable for local, extended or remote control**
- Up to six channels**
- Simplex or duplex operation**
- Selective internal metering**
- Monitoring loudspeaker with volume control**

Description

The RC760/TR is an a.m fixed station free-standing rugged transmitter/receiver designed for use in low, mid, high, police and air bands, operating on up to six preset channels.

The RC760/T is a high powered transmitter with an output power of 25W (the maximum allowed by the Ministry of Posts and Telecommunications) which will provide reliable communication over a wide area.

The RC760/R is a transistorized single-frequency superheterodyne receiver.

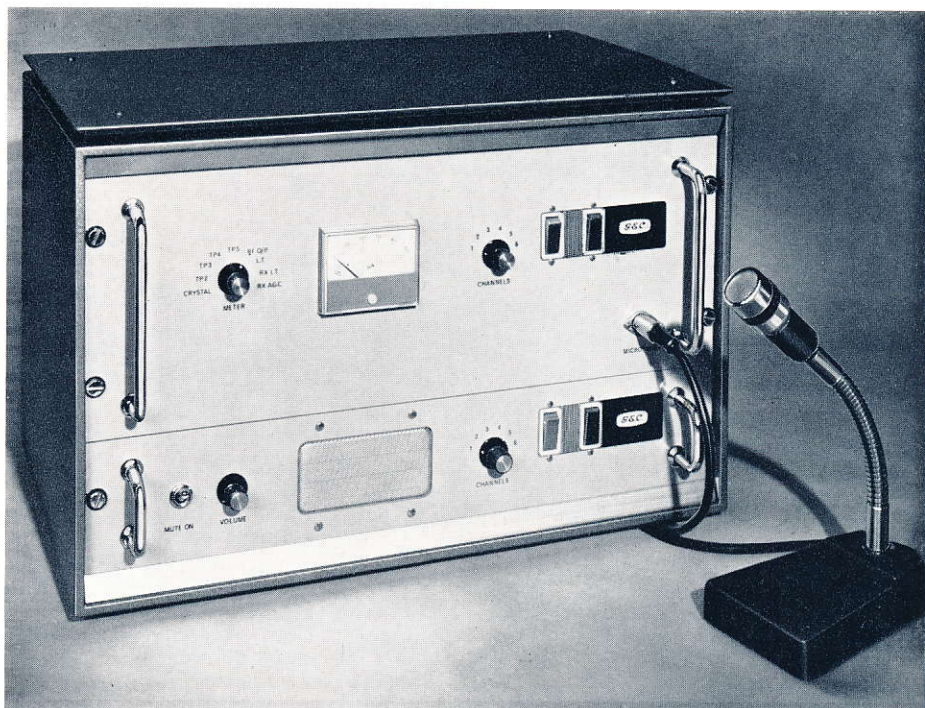
The equipment can have local, extended or remote control as detailed in the GEC RC1002 scheme.

The transmitter module is suitable for 483mm (19in) rack mounting and occupies only 180mm (7in) of rack space. The r.f section uses valves in the output and driver stages, ensuring adequate power at an economic price. The remainder of the equipment is fully transistorized. A meter with panel mounted selector switch is provided for internal metering and this meter may also be used to check important circuits in a companion receiver. A mains on/off switch is provided on the front panel of the unit.

The receiver module is also suitable for rack mounting and operates from an integral mains power unit. The complete receiver occupies 90mm (3½in) of rack space, is fully transistorized and incorporates a monitoring loudspeaker with volume control. The mute circuit operates a relay so that external circuits may be switched by an incoming radio signal. A mains on/off switch and indicator is fitted to the front panel.

This fixed station is suitable for use with the RC1550/SC selective call encoder in the GEC selective call system.

The equipment is type approved to the British Ministry of Posts and Telecommunications Specification W6601.



Data Summary

Modulation: a.m.

Service: Simplex-duplex.

Frequency ranges (MHz): 68-88, 80-102, 105-108 (Rx), 138-141 (Tx), 118-136 (air), 156-174.

Number of channels: 6 max.

Channel spacing (kHz): 12.5, 25 or 50.

Power supply: 100V to 125V and 200V to 250V ± 10%, 50Hz to 60Hz.

Impedance - antenna: 50 Ω unbalanced.

Operating temperature: -10°C to +50°C.

Dimensions (approx.): 340 × 340 × 500mm (13½ × 13½ × 19½in).

Weight (approx.): 20kg (45lb).

TRANSMITTER

Power output: 25W.

Spurious emissions: 2.5 μW in 50 Ω.

Response a.f.: -3dB at 250Hz, 6dB at 2000Hz.

RECEIVER

Signal-to-noise (12.5kHz): 10dB for 1.6 μV e.m.f 30% mod at 1kHz.

Power output a.f.: 4W into 3 Ω.

Line output: 1mW into 600 Ω.

A.G.C./lim characteristics: 10dB from 1.6 μV to 100mV e.m.f r.f input.

Muting: Electronic. Preset threshold of 1 μV e.m.f.

Response a.f.:
-3dB at 300Hz.
-10dB at 2500Hz.

As we are always seeking to improve our products, the information in this document gives only general indications of product capacity, performance and suitability, none of which shall form part of any contract.

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