

## V.H.F A.M Portable Radio Telephone

## RC570

### Features

- Small lightweight portable
- Power output 5W
- Six-channel capability
- Battery pack option
- Channel spacing 12.5kHz or 25kHz



### Description

The RC570 is a medium power a.m portable radiotelephone of lightweight and rugged construction. A combined loudspeaker/microphone is provided, and a choice of battery packs is available to meet operational requirements. A socket is provided for connexion to a 12V vehicle supply and a vehicle antenna may also be connected in place of the helical antenna normally fitted. The equipment has been designed to meet the requirements of Home Office Specification W6770.

### Data Summary

**Service:** Single or two frequency simplex a.m.  
**Frequency ranges:**  
68MHz to 88MHz.  
105MHz to 108MHz (transmit) 138MHz to 141MHz (receive).  
156MHz to 174MHz.  
**Channels:** Six within any 1MHz portion of the appropriate band.  
**Channel spacing:** 12.5kHz or 25kHz.  
**Operating temperature:** -10°C to +40°C.  
**Power supply:** Optional battery packs available for one hour minimum or eight hour minimum working on a 10% transmit, 40% receive and 50% standby duty cycle. Socket provided for external connection to a supply between 11V and 16V d.c., positive or negative earth.  
**Size:**  
1 hour pack  
171 × 184 × 57mm  
(6.75 × 7.2 × 2.25in)  
8 hour pack  
171 × 216 × 57mm  
(6.75 × 8.5 × 2.25in)  
2.9kg (6.5lb)

#### Transmitter

**R.F power output:** Not less than 5W with a d.c input of 11-5V.

**Modulation:** Amplitude modulation with control to limit peak modulation to a preset maximum normally 80%.

**Modulation distortion:** With a modulation frequency of 1kHz, at a depth of 50%, harmonic distortion less than 6%.

**Spurious emissions:** Less than 2.5μW.

#### Receiver

**Sensitivity:** Better than 10dB s+n/n ratio for 1.5μV e.m.f modulated 30% at 1kHz on any channel.

**A.G.C:** Less than 6dB variation from 1μV to 100mV e.m.f.

**Mute threshold:** Internally preset from less than 0.8μV e.m.f.

**Spurious responses:** Suppressed by more than 70dB.

**Audio output:** Greater than 2W r.m.s into 8Ω.

**Audio distortion** (with a modulation frequency of 1kHz at a depth of 30%): Less than 5% at 2W into 8Ω.

#### Crystals

To GEC specification EDB 907257/11 Style K. A battery charger is available.

The information contained herein is subject to confirmation at the time of ordering.

---

**Marconi Communication Systems Limited**

Marrable House, Great Baddow, Chelmsford CM2 7QW  
Telephone: Chelmsford (STD 0245) 73331

(A GEC-Marconi Electronics Company)