

UK/PRC351/352 Clansman VHF/FM Manpacks

The UK/PRC351/352 cover the 30 to 76 MHz frequency band in which 1841 channels spaced at 25 kHz intervals are available. Selection of operating channels is, as in the UK/PRC350, by means of four digital switches.

Manpack station UK/PRC351 consists of a receiver/transmitter, a rechargeable battery, a headset, handset and 1.2 m whip antenna. The power output of this station is about 4 W and the range to a similar station is about 8 km. The power output can be increased to 20 W by means of an amplifier carried on the same frame as the receiver/transmitter and connected to it by a coaxial cable. This complete 20 W station is designated UK/PRC352. A 24 V 3.3 Ah rechargeable Ni/Cd battery is available. This gives an 18-hour life at low power and a nine-hour life at high power (at a 1:9 transmit/receive ratio).

The UK/PRC351/352 have remote-control and rebroadcast facilities: a pair of terminals on the face of the set opposite the main controls enable either a remote handset or another UK/PRC351/352 to be connected by a pair of telephone wires up to 3 km long. A switch adjacent to the terminals enables selection of local operation, remote-control, automatic rebroadcast, intercom or call. The first two positions are self explanatory. In the rebroadcast position two sets connected together can be used to form a radio relay to extend the range or to enable operation on another net using a different frequency. In the intercom position the local operator can speak to the

remote operator without the information being radiated.

Station radio UK/PRC352 is normally used with a ground-mounted antenna. This antenna gives the station a range of about 16 km to a similar station.

Status

Part of the Clansman programme and in service with the British Army and other armed forces.

Technical Specification

Mode: F3E, narrowband FM at 5 kHz deviation

Service: single frequency simplex

Power output

UK/PRC351: 4 W

UK/PRC352: 20 W

Power supply: 24 V rechargeable sealed Ni/Cd battery.

Temperature range: -40 to +55°C (plus temperature rise due to solar radiation falling directly on equipment for 6 h/24 h equivalent to 1130 W/m² when perpendicular)

INCL BATTERIES, POWER AMPLIFIER AND CARRIER FRAME

Height: 395 mm

Width: 240 mm

Depth: 120 mm

Weight (basic station)

UK/PRC351: 7.5 kg

UK/PRC352: 9 kg

Operational Specification

Complies with relevant clauses of DEF-133, L3