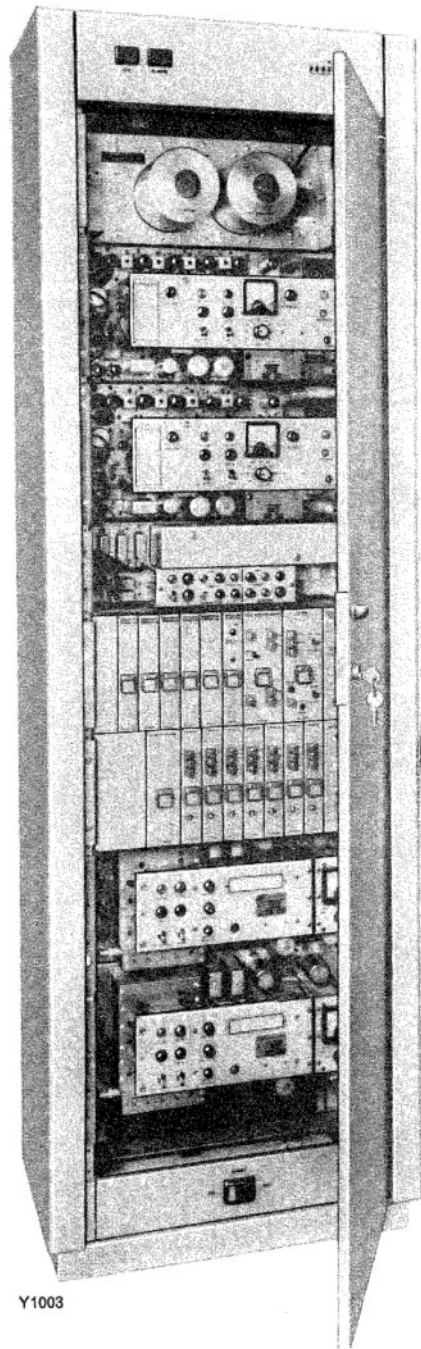


Marconi U.H.F F.M 7 Channel System Type H 7060



The H 7060 system provides six transposed telephone circuits plus one audio channel over a u.h.f radio link operating in the frequency band of 440 to 500 MHz.

The use of this system to expand telephone services enables extra junction circuits to be provided quickly and economically.

The u.h.f radio output of 5 W with directional aerials gives a radio optical range of about 35 miles under average conditions. This range can be extended by the use of repeater stations, or by using a 50 W amplifier.

Intermediate repeater stations may be equipped with channel access units enabling circuits to be inserted or removed as required.

FEATURES

Fully transistorized radio receiver and channelling equipment.

Continuous unattended operation in all parts of the world.

Easy installation.

Standard plans for terminals and repeaters, including duplicated equipment with automatic changeover.

Individual traffic channels can be terminated at any repeater.

Equipment

The complete terminal comprises a compact assembly of units housed in a single cabinet fitted with 19 in. panel mountings.

Tuning controls and components which may require periodic servicing or replacement are all accessible from the front of the chassis. A reflectometer gives an indication of the transmitter power output and reflected power from the aerial. The receiver is fully transistorized.

The telephone multiplex equipment is fully transistorized and provides an audio channel suitable for carrying E.O.W. wire plus 6 carrier telephone channels in the 0.3 to 36 kHz band. Audio circuit bandwidths are from 300 to 3400 Hz in accordance with C.C.I.T.T requirements.

Out-of-band signalling, compatible with various methods of local signalling, is provided within the 36 kHz band.

Where required, more complex relay sets for automatic working can be furnished for most types of exchange and subscriber apparatus. These circuits which may be accommodated in the auxiliary unit are independent of the multiplex equipment.

The auxiliary unit contains the engineer's order wire and associated filters.

Standard optional facilities are as follows:

(a) In one cabinet:

7 circuit radio telephone terminal.

7 circuit radio telephone terminal with standby radio equipment and automatic changeover.

Repeater station.

Repeater station with access to traffic channels.

(b) In two cabinets:

Repeater station and standby radio equipment.

Repeater station with standby and with access to traffic channels.

The high-power amplifier and the aerial diplexer can be added to any of these optional requirements.

DATA SUMMARY

Radio link equipment

Operating frequency: 440–500 MHz.

Transmitter power output: 5 W.

Multiplex equipment

Number of speech channels: 1 audio + 6 transposed channels.

Individual traffic channel

Effective channel bandwidth: 300–3400 Hz.

Terminations: 2 wire or 4 wire.

Input level (four wire): –14 to 0 dBm.

Output level (four wire): –4 to –3 dBm.

Signalling

From M wire to E wire operation: Earth to –50 to –21 V d.c.

Ring-down operation: 60–100 V a.c. 50 Hz (or 17 Hz by external generator).

Ambient temperature range: 0–45°C.

Power supplies: 110 to 150, 190 to 240 V a.c. 50–60 Hz.

Dimensions:

Height 6 ft 3 in. (190 cm)

Width 2 ft (60 cm)

Depth 1 ft 2 in. (36 cm)

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