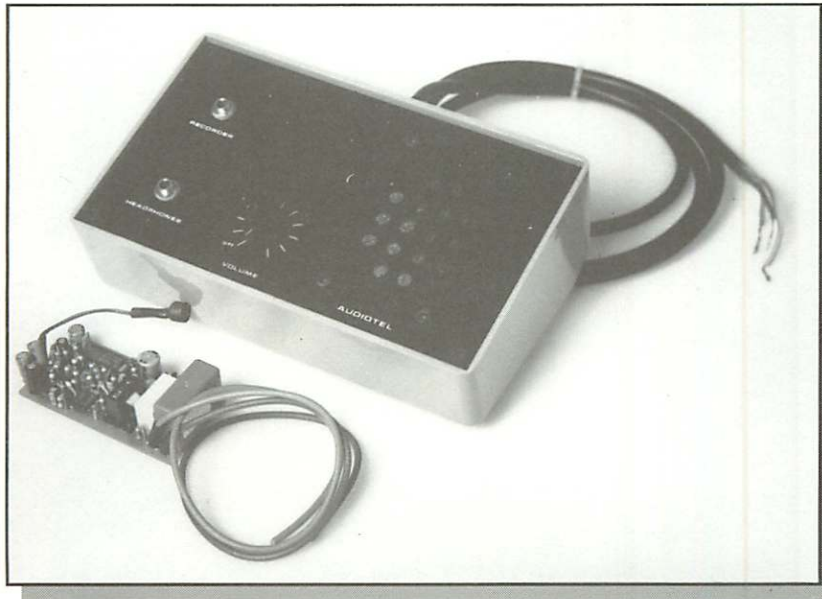


Internal Security

MCX/MCR Mains Carrier System



For discreet audio surveillance

Indefinite operating time

Transmits along AC power cable

Compressor gives excellent audio quality

Small Size of MCX transmitter

The MCX-240 is a low frequency transmitter that uses AC power cables as a transmission path and a source of power. An audio compressor (or automatic gain control - agc) ensures good capture of all sounds within a room. Although intended for audio surveillance the MCX-240 can be used as a general purpose security device to guard against unauthorised entry of a room. The unit is supplied as an uncased assembly for installation by the customer into suitable electrical fittings (adherence to instructions detailed in the manuals that accompany the equipment is mandatory). Transmitting time is indefinite since power is derived from the power cables to which the unit is attached. The MCX-240 is supplied with a 2-wire active microphone assembly and 80mm of cable pre-wired to the unit. The customer may extend this cable if desired. The microphone input stage is compatible with both 2 and 3-wire active microphones and medium impedance passive types

The MCR-240 has been designed to complement the MCX-240 mains carrier transmitter. The unit detects and demodulates the signal from the MCX-240. The MCR-240 has an integral loudspeaker together with outputs for a tape recorder and headphones.

Specifications

MCX-01

Input Impedance

3-wire active microphones, 100k Ω

2-wire active microphones, 10k Ω

Microphone Bias

4V

Frequency Response

300Hz - 3,500Hz nominal

Compressor Dynamic Range

50dB variation in input level gives less than 6dB variation in compressor output

Centre Frequency

120kHz (+/- 1kHz).

Modulation

Narrowband FM

Deviation

+/- 6.5kHz peak

Output Level

1.5V rms at output transformer (120kHz)

Output Impedance

At 120kHz 26 Ω

Operating Voltage

100-260V AC, 50/60Hz

Current Consumption

At 100V, 25mA

Size

Width 33mm

Depth 67mm

Height 21mm

Weight

45g

MCR-01

Centre Frequency

120kHz (+/- 1kHz)

Operating Frequency Range

+/- 10kHz (at 14mV rms input)

Modulation

Narrowband FM

Outputs

Recorder 3.5mV rms

Headphones 0.6mW rms into 8 Ω

Headphones 0.8mW rms into 600 Ω

Controls

Volume adjust for integral loudspeaker

Connections

Recorder and Headphones

Outputs - 3.5mm jack sockets

Power Requirements

100/110 or 220/240V AC to be specified at time of order

Size

Width 160mm

Depth 100mm

Height 60mm

Weight

750g

Order Numbers:

604-040 MCX-01

604-240 MCR-01

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