

Electronic Magneto Telephone as per IRS/TC 79-2000



This instrument is an extended version of Magneto Telephone having an additional feature of one push-button calling in place of Magneto hand generator. It is possible to interface this telephone with microwave and OFC system, since DTMF tones are used for signaling purpose.

This equipment consists of DTMF Generator, Trans amplifier, Receive amplifier, DTMF Decoder, LED, Buzzer, Hand Micro Telephone, Induction coils and 4 Way Rosette Box. The above circuits are assembled on a printed circuit board. The complete circuit is assembled in ABS Telephone cabinet. This has Electrodynamic type transmitter and receiver. This circuit works on 3VDC Power Source. 2 Nos of dry cell to be used. A Battery compartment is provided on the front of the telephone, with a hinged cover and screw.

Circuit Description

IC U1 amplifier and transistor Q1 are used to boost the speech signal from Microphone and DTMF Code from the IC U2 before feeding to the induction coil Ti (4 & 5) and to the lines.

The code can be generated only when the HMT is OFF the hook and the code can be received when the HMT is ON the hook. A line condenser of metalized polyester type is connected in series with the line to protect from any DC voltage present in the line. The terminals of Rosette box are L1, L2, +3V and 0V. DTMF Decoder receives the DTMF Code from other telephone and it drives the Buzzer.