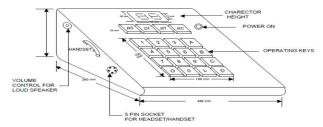
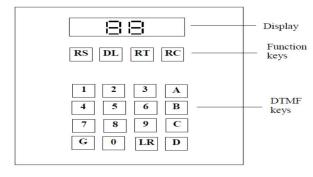
DTMF Headquarters Equipment

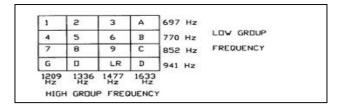


DTMF CONTROL ROOM EQUIPMENT



Working Features:

- The control office equipment is designed to call the way stations by 2 digits DTMF Codes.
- The dual tone transmission for the code digits starts only after pressing the second digit of the way station code.
- The Second digits of the code should be pressed within 4 or 5 seconds after pressing the first digit. Otherwise the first digit becomes invalid and goes off the display.
- Code transmission is completed in 500 milli seconds.
- Entered 2 digit code is displayed on the 7- segment LED display.
- During code digit transmission an LED on the display flickers 2 times indicating code transmission.



KEY	FUNCTION	DESCRIPTION
RS	Reset	System is reset
DL	Delete	Deletes the previous keyboard entry
RT	Repeat	Retransmits the last entered 2- digit station code
RC	Row/ column tones	Row & column tone frequencies are sent to TX lines for
		measurements purpose for maintenance
0 TO 9	Numeric keys	Station code transmission
A,B,C & D	Group code keys	Group code transmission
G	General call	General call transmission to all stations at a time
LR	Long ring	When kept pressed sends the last called station code
		repeatedly for every 5 seconds.

Maintenance of Control Office equipment

- a) For equipments with DTMF signaling proper functioning of the following keys shall be checked.
- i) Group codes A, B, C and D ii) Long ring LR iii) General call iv) Special purpose keys

Reset – RS, Delete – DL, Repeat -RT

- b) All visual indications provided on equipment shall be checked.
- c) Monthly Maintenance: The following shall be checked:
- i) Proper functioning of all station codes including special codes shall be checked.
- ii) Current Drain on 12V DC side shall be as under: idle: 150 mA Working: 500 mA
- iii) Current consumption of transmitter of Controller's head set and HMT shall be between 100 and 150mA.
- iv) DTMF signaling code level shall be between 0 to -7dBm across a load of 600 ohms.
- v) Row/column DTMF frequency by using frequency counter shall be checked by pressing the 'RC' button and shall be within the specified limits. DISPLAY Frequency are r1:697 Hz,r2:770 Hz,r3:852 Hz,r4:941 Hz,c1:1209 Hz,c2:1336 Hz,c3:1477 Hz,c4:1633 Hz

d) Quarterly Maintenance:

(i) Insulation resistance at room temperature of the office wiring when measured with a 100V megger shall be more than 10 megohms between conductor to conductor and more than 20 mega ohms between conductor and Earth.