

## WIRELESS V.U. METER 15 LED CODE 103 (LEVEL

The specialty of this wireless V.U. meter circuit over normal. V.U. meter is no wiring required so it reduces the difficulty of installtion. This circuit principle is to have microphone as a receiver. Then amplifier to V.U. meter set for showing the result by LED.

## **Technical specifications:**

- power supply: 9-12VDC.
- consumption: 150mA max.
- adjustable sensitivity with potentiometer.
- Indication : 15 LEDs.
- PCB dimensions : 3.45 x 2.18 inch.

## How to works:

This circuit uses condenser microphone as a receiver and signal from microphone is fed to TR1 through C1 for amplififying and then the signal will be fed to TR2 through C2 for re-amplifying. Magnified signal will be fed to V.U. meter through D1 set to drive the signal LED2 to LED15 by TR3 to TR9. LEDs in this circuit will run out by 2 ways because once transistor drives 2 LEDs. "IN" position is used for connect with the speaker terminal directly without microphone.

## PCB assembly:

Shown in Figture 3 is the assembled PCB. Starting with the lowest height components first, taking care not to short any tracks or touch the edge connector with solder. Some tracks run under components, and care should be taken not to short out these tracks. All components with axial leads should be carefully bent to fit the position on the PCB and then soldered into place. Make sure that the electrolytic capacitors are inserted the correct way around. The LED has a flat spot on the body which lines up with the line on the overlay. Now



no components missing or inserted in the wrong places.

Make sure that all the polarised components have been

soldered the right way round.

