

# SEVEN SEGMENT DISPLAY

## ABSTRACT:

- A Seven segment display is a form of electronic display device that is an alternative to the more complex dot matrix displays.
- They are also called as seven segment indicators.
- F.W. Wood invented the concept of seven segment display in the year of 1908 as found in the patents.
- Seven segment displays are widely used in digital clocks, electronic meters, basic calculators and other electronic devices that display numerical information.
- Seven segment displays may use a liquid crystal display (LCD), light emitting diode (LED), an electronic display etc.
- The seven segments are arranged as a two vertical segments on each side with horizontal segment on the top, middle and bottom.
- The numerical digits 0 to 9 are the most common characters displayed on seven segment displays.
- Seven segment display consists of 10 pins. Out of 10pins 8 are LED pins and theses are left freely. 2 pins in middle are common pins and these are internally shorted.

- Seven segments are capable of displaying some punctuation glyph characters.
- Types of seven segment display  
There are two types of seven segment displays available, they are
  - 1.common anode type
  - 2.common cathode type.
- Today most of the seven segment applications are using LED because of low current consumption.
- Common uses of 7-segment displays includes microwave ovens, refrigerators , simple calculators, digital clocks and plenty of other devices that display numbers.