MT114

How it works

- Board can measure 2 range of RPM   1 to 9999 RPM , If JP1 is connected measurement can be 10 to 99990 RPM
- Relay#2 will turn on if RPM is higher than Upper RPM setting and will turn off automatic if the RPM is lower than Upper RPM setting.
- Relay#1 will turn on when RPM is below Lower RPM setting if the RPM is higher than Lower RPM setting, relay will turn off.
- Display show ---- when has no RPM signal at input
- Display show o when RPM is over range

How to set Upper RPM (Max) / Lower RPM (Min)

Max

1. Press and hold UP button then press SET, then release both buttons
2. Display will show current setting
3. Press UP or DOWN to increase or decrease
4. Press SET to record the value in EEPROM

MIN

1. Press and hold DOWN button then press SET, then release both buttons
2. Display will show current setting
3. Press UP or DOWN to increase or decrease
4. Press SET to record the value in EEPROM

Remark : Max value should be always more than Min value

In case, you want to set MIN and MAX faster, you can press and hold UP or DOWN to increase or decrease the value, the number will move very fast.

Schematic diagram of a MEGA-48 microcontroller based circuit with power supply (LM7805), optocoupler input, crystal oscillator (X-TAL), two relays (RELAY) with LED1/LED2 indicators, four-digit seven-segment display (LTD-4), and UP / DOWN / SET push buttons.