

Simple Pressure Sensor Amplifier & Over Pressure Switch TTL Output (0-7.5PSI)

The pressure sensor amplifier built using LM358 op-amp and MPXM2051GS pressure sensor from NXP semiconductor. The circuit provides 4V output for full scale pressure input 0-7.5PSI. One op-amp is used as amplifier and 2nd op-amp is used as comparator to provide out at set value and can be used as over pressure switch to control the pump or solenoid. The low cost general-purpose circuit for those applications where +/- 3% performance is acceptable. Multi turn potentiometers are provided for Offset, span adjust & over/under Pressure set point to control output devices like solid state relay, Pump, and solenoid.

Features

- Supply 12V DC
- Pressure Sensor range 0-7.5PSI
- Output 0-4V (Approx.)
- PR1 Multi-Turn Potentiometer Offset
- PR2 Multi-Turn Potentiometer Span Set
- PR3 Multi-Turn Potentiometer Comparator (Switch) output Set
- D1 Power LED
- CN1 4 Header Connector Outputs & Supply Input





