

REVOLUTION PER MINUTE (RPM) METER

Overview

RPM meter, is an instrument that indicates the speed. The most common form of the rpm meter is one that measures the speed of a rotating shaft, as in an engine or other machine. They commonly calculate speed based on how fast an engine shaft is rotating. This information is given in revolutions per minute.

A micro-processor calculates RPM from the time period between pulses. Existing rpm meter can give us the rpm value, but with more rpm resolution.

We have planned to get one rpm resolution. The minimum RPM resolution is a function of the number of pulses/revolution. We have also planned to add an hold button so that when we hold the reading of the meter should hold until we release the button and display the rpm value. Motor will be running in a fixed frequency. When the frequency changes, corresponding rpm value should change.

Specifications

- | | |
|------------------------------------|-------------------------|
| 1. Display | 4 digit 12mm height LCD |
| 2. Range | 0-9999 rpm |
| 3. Rotation Speed | Non-contact/1-9999 rpm |
| 4. Resolution | 1 rpm |
| 5. Accuracy | 0.1% |
| 6. Programmable teeth rev/min | 6,8,10,16 and 20 |
| 7. 2-Push Buttons | |
| 8. Inductive type Proximity Sensor | |
| 9. 1- Illuminated Rocker switch | |



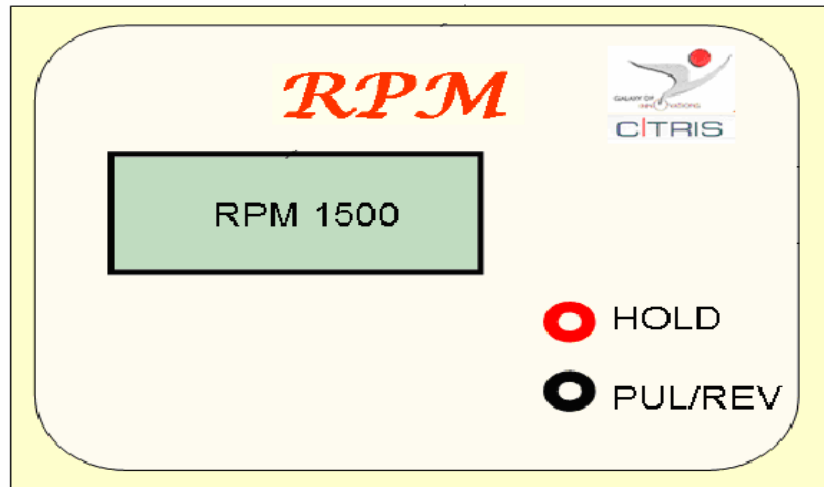
Features

1. One rpm resolution.
2. Simple operation turn on, contact rotating object with sensor tip, allow reading to stabilize and read RPM with excellent precision.
3. Highly visible LCD display gives RPM reading exactly with no guessing or errors
4. Safe and accurate rpm-measurements.
5. Consumes less power.

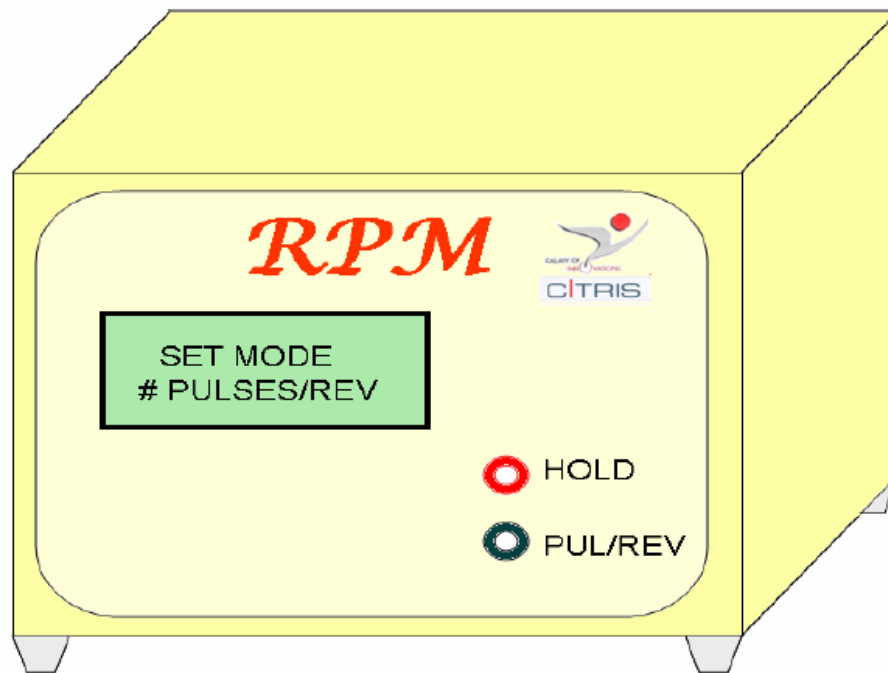
Application

1. The resolution will be reduced.
2. We can get one rpm resolution.
3. If we go for more no. of teeth, the less rpm resolution will be available.

Front Panel View of RPM



3D View of PRM





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