

Tachometer Project Report

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Tachometer is an instrument which measures the speed of any rotating objects in revolution per minute (RPM). There exist mechanical tachometers, where direct contact between motor and the tachometer is needed for measurement of RPM. This kind of tachometers requires regular maintenance and is complicated to use.

Contact-Less Tachometer - IJERT Journal

The project uses a microcontroller of the 8051 family. A pair of sensors (transmitter and receiver) is used to develop a pulse for each reflection that sends an interruption to the microcontroller. The controller timer calculates the speed of each received pulse in a particular time interval and displays the same.

project report on hall effect sensor based contactless ...

ABSTRACT A tachometer is a device that measures the rotation speed of a shaft or disk, as in a motor of other machine. In automotive use, it is used as a gauge showing the speed (RPM) of the engine shaft that is driving the transmission, usually in thousands of rotations per minute.

CONTACTLESS TACHOMETER REPORT - Documentation

A Tachometer is a device which measures the speed of a rotating object like an electric motor or a crank shaft of a vehicle engine. Speed of an electric motor is determined by the number of revolutions made by the motor in one minute. In other words, speed is measured in RPM (Revolutions per Minute).

Contactless Digital Tachometer using 8051 Microcontroller

Contactless digital tachometer using 8051. A three digit contact less digital tachometer using 8051 microcontroller which can be used for measuring the revolutions/second of a rotating wheel, disc, shaft or anything like that is introduced in this project. The tachometer can measure up to a maximum of 255 rev/sec at an accuracy of 1 rev/sec.

Contactless digital tachometer using 8051. 3 digit display ...

About this project A tachometer is an instrument that comes in handy for all electrical engineers and DIYers who love to tinker around with motors and other rotating objects. It is a device that measures the speed of rotating objects such as a motor or a crankshaft in terms of the revolutions it makes in a minute, i.e. RPM.

Arduino Based Portable Digital Tachometer - Arduino ...

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Tachometer Project Report A tachometer measures the rotation speed of motors and other machinery. There are various types of tachometers. Described here is a digital non-contact type tachometer using a proximity sensor. Circuit and working. The circuit diagram of the Arduino-based tachometer is shown in Fig. 1. Tachometer - LinkedIn SlideShare A microcontroller based tachometer is a device ...

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Arduino Automotive Shift Light + Tachometer | Hackaday.io

Digital tachometer using arduino plus speed control. Tachometer is a device used for measuring the number of revolutions of an object in a given interval of time. Usually it is expressed in revolutions per minute or RPM.

Tachometer using arduino -Use Arduino for Projects

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Tests devised and conducted by the Psychology Department of the University of New Mexico to obtain data on the frequency of occurrence of errors in reading and setting multiple-turn dials of five different designs are described. Analysis of the data obtained from the tests lead to the conclusion that dial design has marked effect on speed and accuracy with which the dials may be set and read. The design of Dial 5 is recommended for use under the specifications for this study. The set-check system used in the experiments is found to have an error probability of 0.0015 for this dial. A double-set system, in which two persons set two automatically interlocked dials, is suggested and it is predicted that this system would reduce the probability of error for Dial 5 to the order of 0.00003.

The objective of the study was to develop a tachometer for use with the METC turbodrills. Tachometers are needed to allow efficient operation of the turbodrills. The operating speed of the turbodrills is now unknown, resulting occasionally in excessive operating speeds and rapid bit wear. In some applications, good tachometers could increase the footage drilled per bit run and greatly reduce drilling costs. This project resulted in the successful testing of a prototype turbodrill tachometer. The tachometer utilizes a set of partially blanked turbine blades in the motor section of the turbodrill which produce one pressure pulse each time the turbodrill rotates one revolution. The pressure pulses are transmitted through the drilling mud in the drill pipe to the surface where they are detected and processed. The frequency of the pulse signals is a direct measure of the turbodrill rotary speed. Numerous laboratory tests of the pulse tachometer were conducted at Maurer Engineering's turbodrill facility in Houston, Texas. Motor test stand comparisons of the mud pulse tachometer with direct magnetic and optical tachometers usually demonstrated excellent agreement. The tachometer performed well at depths in excess of 10,000 feet in Los Alamos Scientific Laboratories' EE-2 geothermal well. Water was used as the drilling fluid in these tests. The tachometer allowed continual monitoring and control of the LASL turbodrill speed. This attributed, in large part, to the success of the LASL turbodrills. Over 20 successful turbodrill boreholes were made using the tachometer. Although attenuation is greater in viscous drilling mud than in water, theory indicates that the pulse tachometer should be effective with viscous muds even at depths of 10,000 to 20,000 feet.

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