

PROJECT REPORT

On

A MICROCONTROLLER BASED SYSTEM FOR DETERMINING INSTANTANEOUS WIND SPEED AND DIRECTION USING JUDICIOUS INSTRUMENTATION

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SYNOPSIS

A scheme for measuring wind speed and determining its direction has been introduced. Unlike the conventional systems used for this purpose, the system presented here uses magnetic switches to measure the direction and speed of wind using DC motor circuit and therefore is free from the problems introduced by speed limit associated with mechanical measuring devices.

The system uses the following instruments used in meteorological measurements for measuring wind speed and direction respectively: dc motor and wind vane. A microcontroller has been used to ease the required calculations for producing meaningful results from the data provided by the magnetic switches. The result is displaced on the computer screen.

The system is cost effective and is portable which gives a lot of advantage to the users.