

Micro Controller based Automated Tyre burst Preventer

Introduction

From early to now a major problem we facing while riding a vehicle is Tyre burst. During tyre burst it's difficult to control the vehicle. Hence accident was held and lead to the fatal death of passengers.

Scope of the work

- ❖ To monitor the tube tyres which burst due to critical pressure developed inside tube.
- ❖ To monitor the Pressure raise by over stress of heavy vehicle, in fast travelling vehicle pressure increase due to molecule friction inside tyre increase the temperature.
- ❖ To design a simple, easy to install, microcontroller-based unit for monitoring the Tyre pressure and temperature automatically.



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Innovation

- ❖ Automatic Tyre temperature monitoring using temperature sensor.
- ❖ Information regarding temperature obtained by using temperature sensor according to that the water sprinkles over the tyre.
- ❖ Micro controller is used to control the whole system placed on dashboard.



Product Development Component Used

- Microcontroller
- Temperature sensor
- Pressure sensor
- On/ Off controller
- Water pump