Abstract

Wireless Networks gained great attention in recent years. In this paper, the proposed Sensor Network Based Oil monitoring system a demo design is proposed. Our system takes the measurements of fluid levels by installed sensors in fluid storing tank. This system works with the 3 oil tanks (tank A, B, C) having same types of sensors stored in tanks to sense the data (level of oil). All three information regarding three levels will be send via RF transmitter. Sent out signals will be received by RF receiver that will be connected to other processor via RF decoder at recording and display end. This is system, which will be connected to computer system’s serially via RS-232 interface to send the measured data or information into computer system to display measurement in form of bars and to record measured data in computer’s database. The Aim of this study is to illustrate how much accurate the level of oil in particular tank during different Temperature conditions and how much variations will be there in the measurements at that time.

References

- Andy Trent, "Remote Telemetry System for Particulate Monitoring," United
- Donglin Wang, Member IEEE, Renlun He, Jiangqiu Han, Michel Fattoucho and Fadhel M. Ghonnouchi, Fellow, IEEE, "Sensor Network based Oil well Health Monitoring and Intelligent Control," IEEE Sensors Journal, vol 12, No. 5, May 2012.
Measurements in Sensor Network based Oil Monitoring Control


Index Terms

Computer Science  Wireless

Keywords

Wireless Network  Intelligent System  Fuzzy Logic  Artificial neural networks  Radio Module

Wireless Communication.