

Design and Construction of Wireless Personal Computer Based Fuel Level Monitoring System

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Abstract

Global System for Mobile communication (GSM) firms in Nigeria operates their base stations using generator sets. These base stations are located at nationwide. This research work aim at the design and construction of Wireless personal computer (PC) based fuel level monitoring system . It focuses on the continuous monitoring of fuel level in four different tanks of a generator set at different locations of the base station via the combination of four high profile floater sensors and Radio frequency (RF) transceiver. A radio frequency transceiver was introduced to interpret transmitted information to end users at a receiving point using PC. Results of the different fuel levels obtained through wireless medium are graphical represented on the PC display for monitoring and prompt actions. The PC interface was made possible using C++ programming language.

Keywords: Monitoring system, fuel level, floater, transceiver and Radio frequency

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