Universiti Teknologi MARA

Gas Safety Management System to Detect LPG Gas Leakage Using Wireless Sensor Network

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ABSTRACT

Gas Detection System - Most of the dangerous gas such as carbon monoxide (CO), refrigerant gas and liquefied petroleum gas (LPG) is colorless and odorless compound that are produced by incomplete combustion. Therefore, gas detector device is needed in order to inform the safety situation continuously. This system gives real time detection on the potential risk area. Gas and Propane were sensed and displayed each and every second in Liquid Crystal Display (LED). If these gases exceed the normal level then the alarm will generated immediately. MQ-6 gas sensor is used to sense poisonous gas and has high sensitivity to LPG and natural gas. This project is the modified of the existing gas sensor using in the industries. It offers quick response time and accurate detection.

Keyword: Gas leak detection, Sensors, Zigbee.

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