UCSI UNIVERSITY

FACULTY OF ENGINEERING, ARCHITECTURE & BUILT ENVIRONMENT

MULTIZONE FIRE ALARM SYSTEM

YEOH CHIN AIK

1000613633

JAN 2011 - AUG 2011

Abstract

Multizone Fire alarm system is designed to detect the presence of fire in the particular by using sensor. Each sensor can identify its specific location and status, and hence saving time and confusion in an emergency. The sensor will then send signal to controller to trigger the alarm system. The purpose of this project is to design and implement a fire alarm system that is effective and systematic. The multizone fire alarm system is able to detect fire presence up to 8 different zones. A monitoring system is also developed to observe all 8 zones and at the same time being user friendly. Sensors that can be use to assist in the fire alarm system are heat sensor, smoke sensors and flame sensors. Combination of different kind of sensor can increase the accuracy and reliability of system. Different types of sensor are setup in different place depending on the location and importance of the location. Graphical user interface is also designed so that monitoring system are systematic and easily to be monitor by people. Hence fire accident can be reduced and damage can be minimized as the fire accident is being found earlier.