INDUSTRY SPECFIC INTELLIGENT FIRE MANAGEMENT SYSTEM

OBJECTIVES

The proposed system consists of two parts which are transmitter and receiver parts. The transmitter will be controlled by an arduino board while the receiver part will be controlled by Lab view GUI.

INTRODUCTION

Fire prevention and protection in industrial plant basically include procedures for preventing, detecting and extinguishing fires. There is much to be done to promote safe systems for fire prevention in India. The systems should be designed to protect the employees and property and to assure safe working systems. Fire prevention and protection in any industrial plant include fire detection system, fire alarm system, fire prevention plan and employing legal requirements relevant to fire and safety management.

ADVANTAGES

- Cost effective for larger applications.
- The location of a fire condition is detected and recorded at each individual device, identifying exactly where the fire is occurring. This will improve response time for emergency responders.

Lower ongoing service cost, because when a device goes into trouble (i.e. needs cleaning, repair or replacement), the panel will tell you the exact location of the device needing service

- Online capabilities: New intelligent panels have the capability to provide detailed online notification of alarm/trouble/supervisory events.

DISADVANTAGES

- Cost, not as competitively priced for smaller applications.
- Typically with an intelligent panel, your peripheral devices (i.e. smoke detectors , etc…) tend to be more expensive than conventional devices.
- This panel is computer like and at times there maybe issues caused by the firmware (panel software). However, this is not common and the advantages of intelligent panel far outweigh any of these firmware issues.

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