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(57) Abstract :
ABSTRACT A COAL MINE SAFETY SYSTEM USING LoRaWAN The present invention is a coal mine safety system using LoRaWAN keeping track of all the data flowing from various sensors is mostly done by monitoring and regulating systems. In the coal mine environment, fire sensor detects fire (200), a gas sensor detects gas (202), humidity sensors (201) detects presence of water, and temperature sensors detects temperature (203). These sensor measurements are continuously sent to a cloud server for analysis and future usage. the Arduino uno module (400) display the plurality of sensor values in the LCD display and check whether LoRa transmitter (301) is ready and if ready the LoRa transmitter (301)using a node MCU module (303) send the plurality of sensor data to the LoRa receiver. The Arduino uno module (400) compare the plurality of sensor data with a prestored values and if the plurality of sensor data exceeds a threshold alert user through the alarm (304). Fig 1 is the reference

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