**Gas Leakage Monitoring and Alerting System**

Literature Survey – 3

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**Name:** Gas Leakage Detection System using IoT with integrated notifications using Pushbullet.

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**Published In:** IEEE International Conference on Inventive Systems and Control (ICISC 2020)

**Ref. Link:** [**https://ieeexplore.ieee.org/document/9171093**](https://ieeexplore.ieee.org/document/9171093)

**Year:** 2020

**Summary:**

The main idea of this paper is to carry out the literature review on IoT based gas detection techniques and to ensure the safety of people and surroundings. By presenting a simple yet reliable system, gas leakage detection system using MQ5 gas sensor and arduino uno controller is incorporated with a cloud storage for data collection and also used for storing and analyzing data. Gas leaked is converted from Parts Per Million (PPM) to volts through the arduino IDE and results in notifying the user when the threshold limit is crossed. The user is alerted via an application for quick notification through the internet and also through a buzzer /LED for physical notification.

**Merits:**

The proposed system replaces the conventional methods such as database logging for prediction and thingtweet which is configured through thingSpeak to send twitter messages as smart alerts.

**De Merits:**

The operation range of the wireless system was found to be working only around 22 m for indoor and 110 m for outdoor (open space).