

LITERATURE SURVEY

TITLE	AUTHOR	OBJECTIVES
Gas Leakage Detection System using IoT with integrated notifications using Pushbullet-A Review.	M Athish Subramanian, Naveen Selvam, Rajkumar S, R Mahalakshmi, and J Ramprabhakar	This paper reviews the previous state of art and also have proposed a 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 analysing 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. The prime novelty of the proposal may be claimed as the usage of cloud storage for detection and notification. The system, though is simple and straight forward, can be very efficiently used for domestic purpose.
Gas Leakage Detection Based on IOT	Suma V, Ramya R Shekar, and Akshay Kumar A	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 analysing 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.

<p>Internet of Things (IOT) Based Gas Leakage Monitoring and Alerting System with MQ-2 Sensor</p>	<p>Rohan Chandra Pandey, Manish Verma, Lumesh Kumar Sahu</p>	<p>This work modifies the existing safety model installed in industries and this system also be used in homes and offices. The main objective of the work is designing microcontroller based toxic gas detecting and alerting system. The hazardous gases like LPG and propane were sensed and displayed and notify each and every second in the LCD display. If these gases exceed the normal level then an alarm is generated immediately and also an alert message (Email) is sent to the authorized person through the INTERNET and used ARM development board. The advantage of this automated detection and alerting system over the manual method is that it offers quick response time and accurate detection of an emergency and in turn leading faster diffusion of the critical situation</p>
<p>LPG Gas Leakage Detection Using IOT</p>	<p>Arun Manhas, Neeraj Chambyal, Manish Raina, Dr. Simmi Dutta</p>	<p>This paper provides a brand new approach to discover LPG discharge supported microcontroller based Node MCU. To alert on Liquefied rock oil Gas (LPG) leakage and preventing any unwanted incident, we need to apply some cautions to discover the discharge. This paper aims to provide a solution to this problem by building a device which will do the area monitoring continuously. The gas sensor provides data to Node MCU, and then the results are displayed as a warning to the user via an Android-based smart-phone device. Other than LPG gas, Air conditioner and refrigerator leaked gases are also harmful in home. Using this device users will be able to prevent accidents that occur due to harmful gas leaks so that accidents can be avoided</p>

REFERENCES

[1] M Athish Subramanian, Naveen Selvam, Rajkumar S, R Mahalakshmi, and J Ramprabhakar Gas Leakage Detection System using IoT with integrated notifications using Pushbullet-A Review.
<https://ieeexplore.ieee.org/document/9171093>

[2] Suma V, Ramya R Shekar, and Akshay Kumar A Gas Leakage Detection Based on IOT.

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[3] Arun Manhas, Neeraj Chambyal, Manish Raina, Dr. Simmi Dutta LPG Gas Leakage Detection Using IOT.

https://www.researchgate.net/publication/354309093_LPG_Gas_Leakage_Detection_Using_IOT

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