Gas Leakage Monitoring and Alerting System

TEAM ID: PNT2022TMID04334

LITERATURE SURVEY

S.NO	PAPER	AUTHOR	YEAR	METHOD AND ALGORITHM/ SOFTWARE	SHORT ABSTRACT	FUTURE WORK
1.	IOT Based Industrial Plant Safety Gas Leakage	Ravi Kishore Kodali,Greeshma, R.N.V,Kusuma Priya Nimmanapalli,Yatish Krishna Yogi Borra	2018	IFTTT web service	leakage detector which sends the warning to the concerned people through SMS . This detector senses the presence of harmful gases particularly, LPG, Methane and Benzene. LPG and Methane gases catch fire easily resulting in blasts	similar kind of approaches can be proposed in cities of the future, where a gas detection and confinement system can help in addressing the problems of leaks in gas pipelines, while preserving extensibility and usability, our framework has design simplicity
2.	Gas Leakage with Auto Ventilation and	Afsana Mim Anika, Ms. Nasrin Akte,	2021	Arduino IDE adaptation 1.8.13	Spillage of gas increases the risk of fire accident, suffocation or	adding real time camera sensor to

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	Smart Management System Using IoT	Md. Niamul Hasan, Jannatul Ferdous Shoma, Abdus Satta			a blast.ystem can detect fire, gas leakage and it also has the ability to take further steps and decrease gas concentration.	provide the situations of the infrastructure.
3.	Gas Leakage and Fire Detection using Raspberry Pi	Sourabh Jamadagni, Priyanka Sankpal, Shwetali Patil, Nikita Chougule, Shailesh Gurav	2019		. In gas sensor system, Ras pberry pi plays an important role such that all the components are interfaced to it. This avails the observer to notice the changes from anywhere in the world. The requirement of a gas detection system is to monitor the surroundings continuously. When gas and smoke is detected then system will send short message service (S MS) to the user	advanced controller for environmental conditions and controller collects the data from sensors and those updated sensors values are written by python coding in particular file.
4.	Gas Leakage Detection Based on IOTbased Convolution Neural Network	Suma V, Ramya R Shekar, Akshay Kumar A	2019		load cell has been used to monitor the weight of the LPG gas regularly through wifi. The values are next fed to the microcontroller. If the gas in the cylinder indicates a value where the remaining percentage level is crossed below the threshold levelset for gas to be indicated as	

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					getting emptied, then a notification will be delivered to gas enterprise automatically to book the new cylinder. The values are next fed to the microcontroller. If the gas in the cylinder indicates a value where the remaining percentage level is crossed below the threshold levelset for gas to be indicated as getting emptied, then a notification will be delivered to gas enterprise automatically to book the new cylinder.	
5.	Pipeline gas leakage detection and location identification system	M. Panjany	2021	GSM Module makes use of AT commands		Now the gas leakage is notified but in future the gas flow will be automatically stopped if gas leakage is identified.