IDEATION

**SENSORS**

* Electrochemical.
* Catalytic bead

**SOLUTION**

* The sensor-enabled solution helps prevent the high risk of gas explosions and affecting any casualties within and outside the premises
* The gas sensors help detect the concentration of the gases present in the atmosphere to avoid hazardous consequences like fire breakouts

**REQUIREMENTS**

* Sensors
* Orientation
* Control System
* Alarm
* **Sensors Alarms**
* **Orientation Testing**

**Control System**

* **Sensors Alarms**
* **Orientation Testing**

**Control System**

**WORKING**

* A catalytic gas sensor contains a platinum coil and is heated when it comes into contact with gaseous reactants.
* This raises the temperature within the coil.
* The catalytic gas sensor will sound the alarm and alert people if that temperature change is within what is considered a dangerous range.

**GOALS**

Detect Combustible,

Flammable, Toxic gases, Oxygen depletion.

**DEMERITS**

* It is difficult to know failure modes unless very advanced methods of monitoring are used
* Non-selective in the flammable gas range

**WHO?**

* Industries
* Working People
* Factories

**OBJECTIVE**

* To detect gas leakage and neutralize it
* To prevent the explosion

**PROBLEM DESCRIPTION**

* The leakage of gas leads to major**fire accidents** which lead to heavy damage inside the industry as well as the loss of human beings.
* It is feasible to detect the gas leakage before any disaster happened.
* So, industries need a very efficient gas leakage detection system.