DESIGN OF SAFETY SYSTEM FOR LPG GAS LEAKED ON PADDY DRYING MACHINE USING TGS 2610

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Abstract  
Safety system for LPG gas leak on paddy drying machine using TGS 2610 sensor has been made. This system composed of TGS 2610 sensor, Arduino Mega 2560 as controller, solenoid valve and buzzer as actuator. When gas leak happen, sensor will detect and calculate how much gas concentration, if gas concentration more than 300 ppm, then safety system will running, buzzer will make a sound and then solenoid valve will closing gas flow so it will not going to stove anymore when the gas concentrate reach 500 ppm, and the gas leaked will not have permission to get out from the tube.

Keywords : safety system, TGS 2610 sensor, LPG gas concentration