

1. How will you use the sensor?
  - a. measurement medium will be Liquid petroleum gas (LPG)
  - b. Ultrasonically while attached to the metallic surface of the LPG gas cylinder
  - c. How to install? Attached on the base of the metallic gas cylinder.
  - d. What function does it achieve? The sensor is to send the volume of the LPG in the cylinder to an android/ios app
2. Parameter requirements
  - a. Range should be from 50 to 2000mm
  - b. measurement angle? The sensor is to be attached to the bottom of LPG cylinder (preferably magnetic attachment)
  - c. Power supply mode? 3.3 to 12 v DC and peak current of 100mA
  - d. Output requirements is UART
3. Protection requirements
  - a. Indoor or outdoor? Will be used indoor
  - b. Is there any large electrical equipment running around the sensor? No
  - c. What kind of protection the equipment needs? Needs GND for electrical protection and a casing to mechanically protect the sensor while attaching it to the metallic surface of the LPG cylinder
  - d. The temperature, humidity, corrosion of the sensor using environment? Operating temperature is from -15 to 60 degrees Celsius and humidity is from 65 to 80% RH