

# GAS SENSOR DEVELOPMENT SYSTEM

## MODEL GSD1M-1G



## ABOUT THE SYSTEM

Gas Sensor Development system is designed and developed by our company and has recognition worldwide. The Gas Sensor Development system is most advanced in its specifications and can undertake various tests defined below. These systems are used in change in DC resistance in presence of gas of pellets and films. The new system is digital and has PC USB interface. Total operations are performed by highly advanced Gas Sensor test software. The test software is provided license for lifetime.

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### Various tests performed by this model

- Change in DC resistance in presence of gas/ vapours
- Change in dielectric parameter like impedance in presence of gas vapours
- Fuel cell sensor development suit

### Optional test performed by this model

- Change in DC resistance in presence of gas/ vapours at different temperature
- Change in dielectric parameter like impedance in presence of gas vapours at different temperature



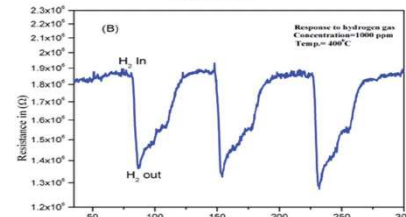
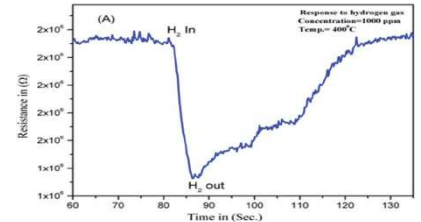
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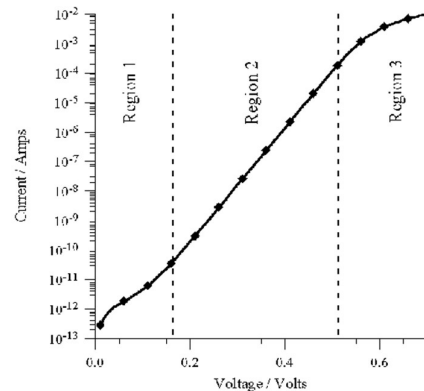
## General Specifications

- Resistance range 1 milli ohm to 100 Giga Ohm
- Temperature range RT- 500 C
- Resolution 0.1 degree
- Temperature stability 1 degree
- PID Controller with PC interface
- Voltage compliance 100V DC
- Resolution 1% of the range
- Current range 1 Nano A 10 mili A
- Resolution 1% of the range
- Software to set heating rate, set point step etc included
- Standard graph and data in tabular form.
- RS232/USB interface hardware.



## System Test Specification

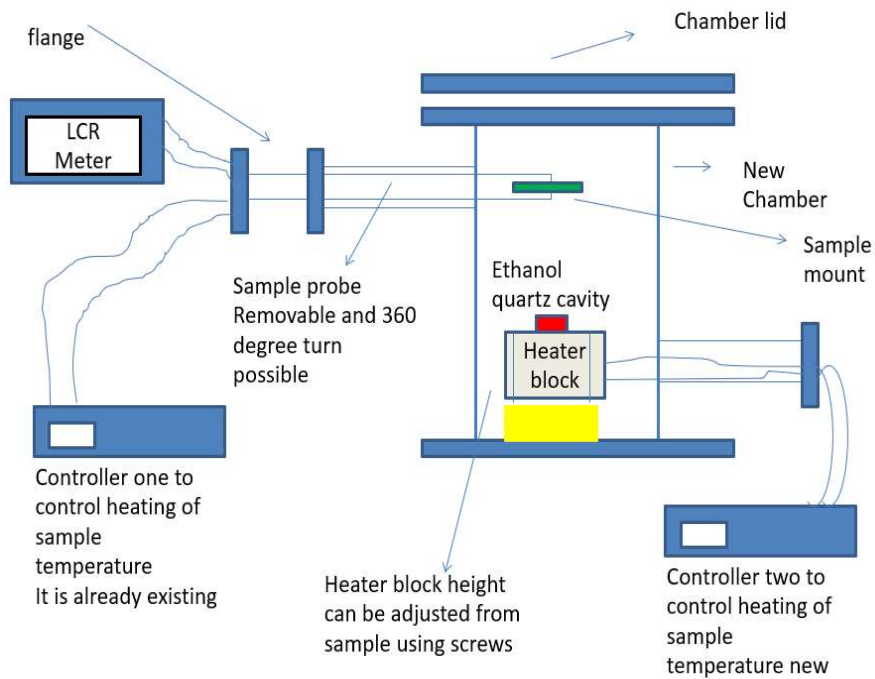
- Resistivity micro ohm cm to Giga Ohm cm
- Resolution 0.1 % of the range
- 18 Bit AD convertor
- Minimum sample area 1 sq. mm
- Maximum Sample diameter 10 – 15 mm
- Maximum Sample thickness 3 mm
- Minimum current measurement 0.1 nC
- Input capacitance 1 p F



## Optional accessories

- Temperature attachments
  - Fuel cell holders
  - MFC
- ❖ Note – Some specifications are related with optional test indicated above.  
Those are valid only when particular option is purchased

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## List of Deliverables

- Main Gas sensing chamber
- Electrometer, (Option to choose current source, nanovoltmeter)
- Two / Four Probe Holder
- Heating stage with temperature controller
- Vacuum pump and air pump
- Standard test sample
- Inter connecting cables and manual

## List of users

- Solid State Lab (SSPL) Delhi
- Delhi Technological University
- Nit Trichy