



ELECTRONICS SYSTEMS
(Division of Electronics Instrumentation & Lab Equipments)

GAS SENSING APPRATUS



Applications : To test the IV characteristics with respect to temperature (Max Room temp—600 ° C) and sensitivity performance of compound material (in the form of thin film or pallet) at different gases.

Application areas : Material science physics , PhD research level colleges and Universities.

Technical specifications:

1) MAIN CONTROLLER

- Inbuilt digital Temperature indicator with thermocouple sensor.
- Inbuilt DC power supply for *SAMPLE* Voltage range : 1.2 to 15 volt @ 300 ma. With digital voltmeter.
- External DC power supply connection is also provided.
- Inbuilt variac 10 amp to control the temp in rapid way.

2) SS testing base. (300 X 300 MM)

- Consist of round heater to heat the *SAMPLE* (UPTO 600° C)
- Two nos copper with tin tin plating *SAMPLE* holders.
- SS pipe with for gas insertion .
- Inbuilt sensor (thermocouple to sense the temperature.
- Silicon gasket for fixing the Glass jar.
- Glass jar (200 x 270 mm).

3) DIGITAL PICO AMMETER

4) VACCUME PUMP for DE-gasing the glass chamber.

