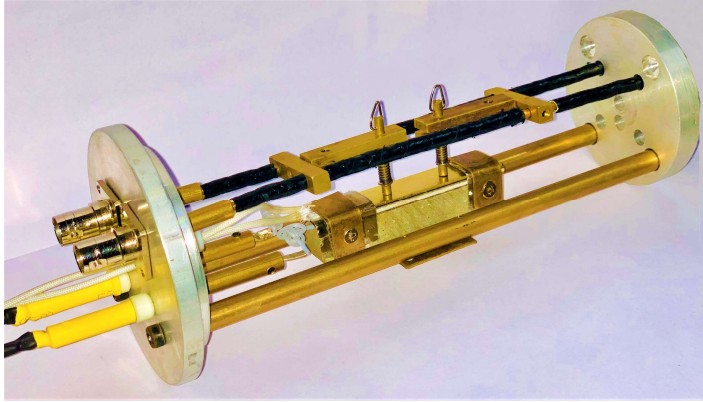


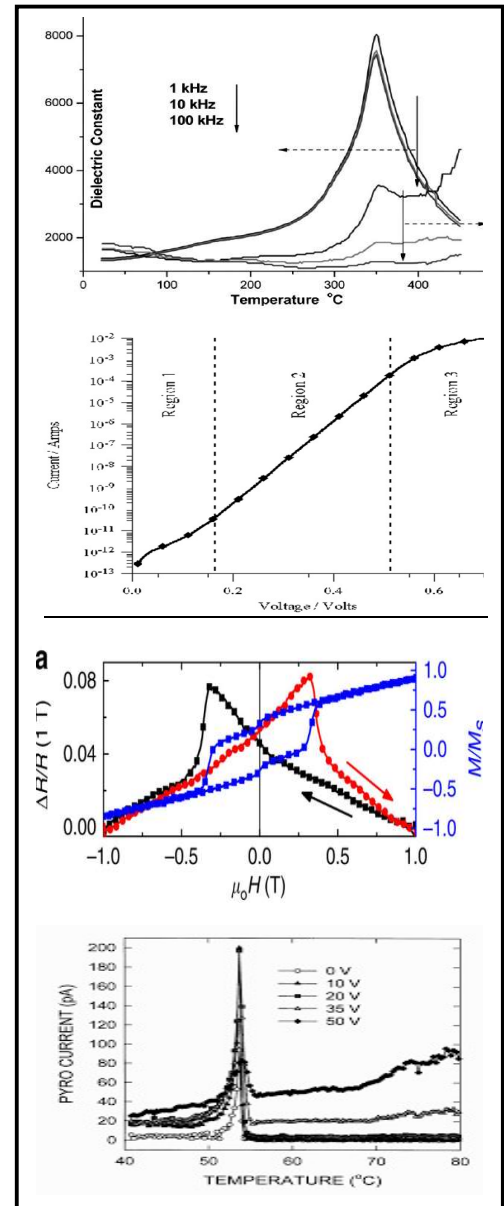
HIGH TEMPERATURE STAGE – I



ABOUT THE SYSTEM

The High Temperature Stage is designed to provide user a low-cost solution for **two and four probe measurement** option. The Conventional systems uses a very large size AC Furnace. The load is only a small piece of sample. Therefore, it is not necessary to use a large furnace. There is another disadvantage of using a large size AC furnace, the heating is abrupt/Fluctuating and colling is not controlled. At maximum experiments the heating rate is very important which is difficult to achieve in large size furnace. We are using a very small power DC Heater. The benefit of using a DC heater is noise free data. The measurement techniques are well defined which makes the system versatile. User can hold the specimen at a desired temperature between **RT – 773K**. The complete system comprises of High Temperature sample holder, temperature controller stage, Vacuum pump and interconnecting cables. Following are the main highlights of the system.

- Temperature Range: **RT – 773K**.
- Specimen: **Thin/ Thick/Bulk**
- Hold Time at any temperature: **1min – 8 Hrs**
- Economics: **Low Initial and Running Cost**



MODEL: RT500 (RT – 773K)

Utility of High Temperature Stage:

- DC Resistivity Measurement
- Magneto Resistance
- Hall Measurement
- Dielectric Analysis
- Pyro Electric
- IV Measurements
- Ferroelectric Measurements



HIGH TEMPERATURE STAGE – I

TECHNICAL SPECIFICATION

High Temperature Stage I	RT500
Temperature range	RT – 773°K
Connections	2/4 Probe
Sample Details	Thin/ Thick/Bulk
Sample Shape	Rectangular / Circular
Sample Dimension	8X8 mm/ 10 mm Dia
Thickness (bulk)	0.1mm to 1mm
Thickness (Film)	10µm to 100µm
Sample Type	Pellet or film etc
Electrode Material	Brass
Heating	Ceramic Heater
Heating Type	DC
Heater Power	25W
Sample Environment	Air/Vacuum/Gas
Construction	SS304
Sensor	Thermocouple K Type
Hold Time at any temperature	1min – 8 Hrs
Temperature Stage	Specification
Control	PID Controlled
Power Supply	Thyristor
Accuracy	0.1°K
Resolution	0.1°K
Ramp Rate	1°K – 10°K
Communication	RS232/ USB
Heating/cooling control	HBA
Input	110/220V 50Hz/60Hz
Vacuum Pump	Specifications
Vacuum Pump Type	Monoblock
Suction Rate	50 liters/min
Flow Rate	3.5FCM
Ultimate Vacuum	5 Pa
Power	1/4HP
Gas Purging Facility	Specifications
Gas Type	Non-Corrosive/Explosive Gases
Flow Control Valve	Manual

(For optional items separate brochure is available)

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