

PYROELECTRIC MEASUREMENT SYSTEM

MODEL PMSRT500 (RT to 873K)



ABOUT THE SYSTEM

High temperature Pyroelectric measurement system is designed to measure Pyroelectric of pellets and films over a temperature range RT TO 873K. The measurement system uses a high temperature sample holder designed and developed by our company. The measurements are done using a Picoammeter which is connected with a PC and temperature controller together. The data recorded automatically for Pyroelectric in above temperature range.



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Various tests performed by this model

- Pyro vs temperature at fixed interval
- IV vs temperature at fixed interval
- VI vs temperature at fixed interval

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PYROELECTRIC MEASUREMENT SYSTEM

General Specifications

Picoammeter 6485

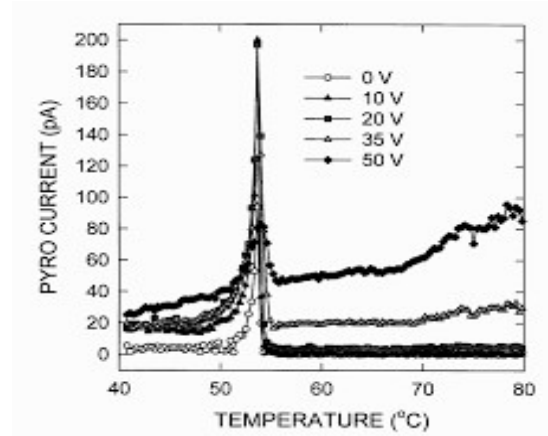
10 fA resolution
5-1/2-digit resolution
<200 μ V burden voltage
Up to 1000 readings/second
Built-in Keithley 485 emulation mode
GPIB and RS-232 interfaces
Analog output

Sample holder

SS Construction
Facility to load bulk pellet and thick film
Inbuilt heating control
Gas purging and vacuum facility

Temperature stage

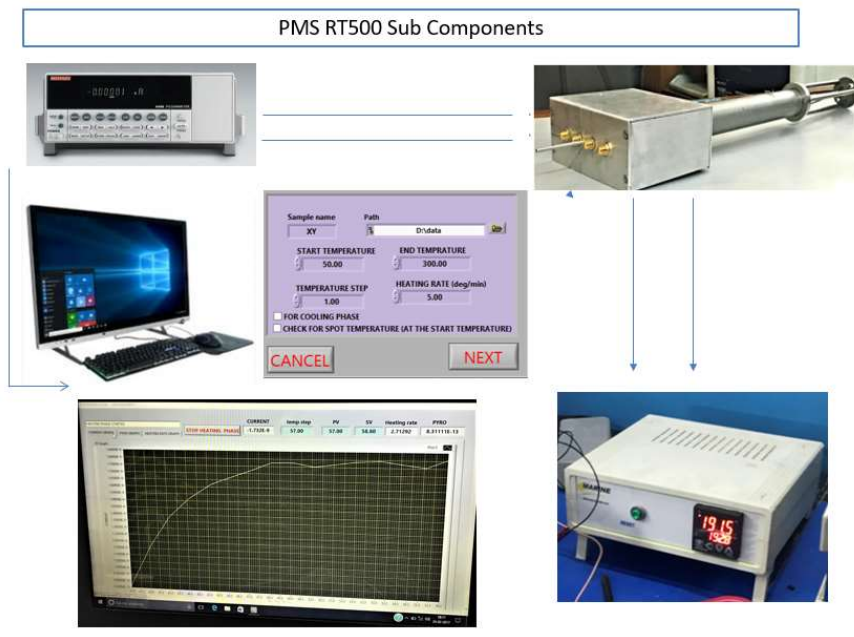
RT to 873 K
Accuracy 0.1%
Stability 1 degree
PID Controller
USB Interface



System Test Specification

Input Voltage Burden: 200Uv on all ranges expect <mV on 20mA Range
Maximum Input Capacitance: Stable to10nF on all nA ranges and 2uA range; 1uf ON 20uA ranges, and on mA ranges
Maximum Continuous Input Voltage: 220VDC
NMRR¹: (50 or 60Hz) :60Db
Isolation (Meter COMMON to chassis): Typically,>5x10¹¹ Ω in parallel with <1nF
Analog output: Scaled voltage output (inverting 2V full scale on all ranges) 3% \pm 2mV 1K Ω impedance
Note – Some specifications are related with optional test indicated above. Those are valid only when particular option is purchased

PYROELECTRIC MEASUREMENT SYSTEM



- List of Deliverables

- Sample holder assembly
- Furnace RT to 873-degree Kelvin
- Sample holder stand
- Temperature controller stage
- Software
- Interconnecting cables and Manual
- Keithley -6485 (Optional)



List of users

- Solid State Lab (SSPL) Delhi
- Delhi University
- RRCAT Indore
- IIT Delhi
- IIT Roorkee
- Shimla university
- Osmania University
- IIT Patna
- Maharaja Agrasen university