

# THIN FILM FERROELECTRIC TEST SYSTEM

## MODEL 20 THPE 1KHZ 0.01N



### ABOUT THE SYSTEM

Thin Film Ferroelectric test system is designed and developed by our company and has recognition worldwide. The Thin Film Ferroelectric Test system is most advanced in its specifications and can undertake various tests defined below. The accuracy and the resolution of the system is very precise as low as Nano coulomb. The new system is digital and has PC USB interface. Total operations are performed by highly advanced Thin Film test software. The Thin Film test software is provided license for lifetime.



## MODEL 20 THPE 1KHZ 0.01N

### Various tests performed by this model

- Ferroelectric charge at different frequencies
- Fatigue measurement
- Ferroelectric charge at different temperature

### Optional test performed by this model

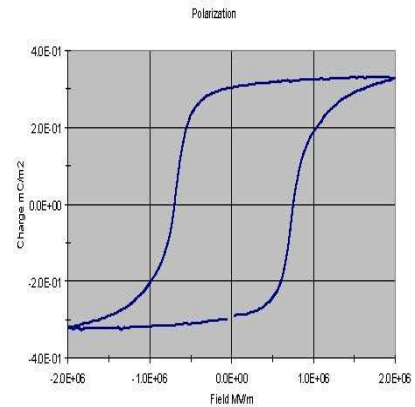
- Ferroelectric charge at different magnetic field
- Remnant hysteresis, curve energy, Charge, leakage current  
Single point C/V, PUND measurement, General pulse and sample pulse.

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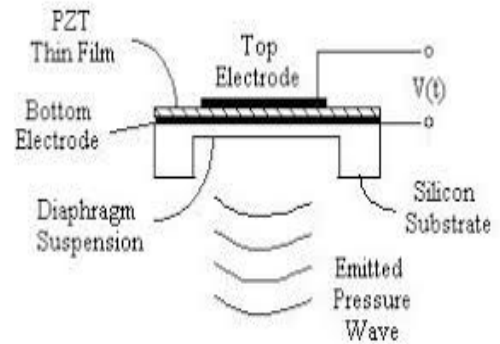
## General Specifications

- Field  $\pm$  100V
- Frequency 20 Hz to 1 KHz
- Fatigue up to 20<sup>th</sup> order of cycles
- Resolution 18 bit (1nC)
- Temperature RT- 250 degree with PID control.
- Microprobe Station
- Complete data transfer to standard software like Origin xls.
- Data transfer using USB stick
- USB/RS232 interface
- 19 inches rack mountable unit



## System Test Specification

- 16 Bit Wave form generator
- 18 Bit AD convertor
- Minimum charge sensitivity 0.01 nC
- Maximum charge measurement 100 uC
- Minimum sample area 1 sq. mm
- Maximum Sample diameter 10 – 15 mm
- Maximum Sample thickness 3 mm
- Maximum hysteresis frequency 1KHz
- Minimum hysteresis frequency 20Hz
- Minimum leakage current 0.01 nC
- Input capacitance 1 p F



## Optional accessories

- Low temperature attachments

- ❖ 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

- Thin Film Test Unit
- Thin Film Test Software
- Microprobe station
- Standard test sample
- Temperature controller
- Inter connecting cables and manual

## List of users

- Solid State Lab (SSPL) Delhi
- Delhi University
- IGCAR Kalpakkam
- IIT Mandi
- Indian Institute of Science Bangalore
- IIT Kharagpur
- NAL Bangalore
- RCAT Indore
- IIT Delhi
- Rajkot Saurashtra University
- IIT Roorkee
- Shimla university
- Cat Indore
- IIT Chennai
- DMRL Hyderabad
- Osmania University