



This film Test System

About the system

This film test system is designed to designed and developed by our company and has recognition in the industry. The new system is digital and computer interfaced. Total operations are performed by PC and are fully automatic. The following tests can be performed with the system.

- PE loop at diff. frequencies
- PE fatigue measurement
- PE loop at diff. temperature

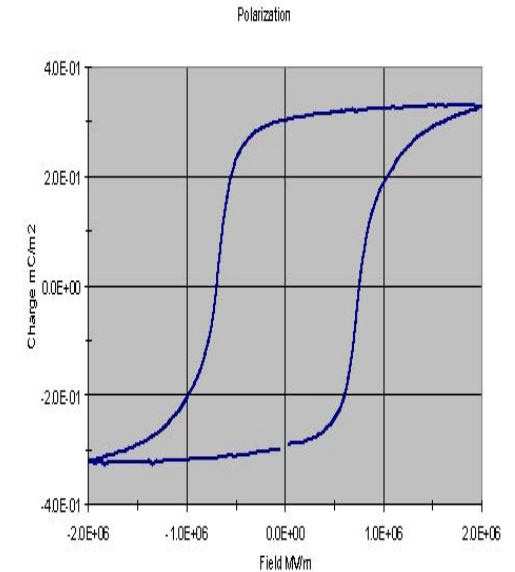


About Us

Marine India is a Professional company, working in design development and production of material research systems for the welfare of Indian Scientific Natured Groups. The main thrust of our company is to produce highly advanced adaptable and low cost systems to suit both Indian and Foreign research facilities.

Main Product Line

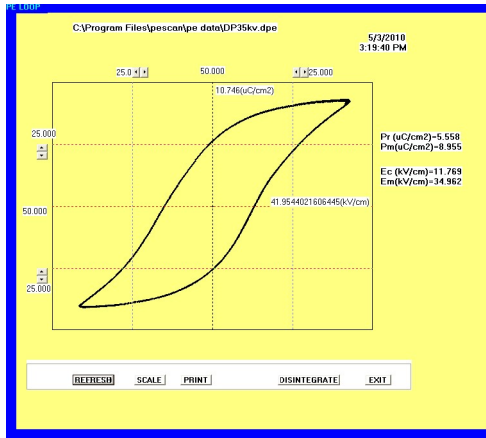
- PE loop tracer system
- BH loop tracer systems
- Multi Ferroic Test system
- Resistance measurement systems
- Electromagnets
- DC polling unit
- AC/DC power supplies
- Source Measure Unit
- LCR Meter/Impedance analyzers interfacing, software's
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*Application Oriented Basic
Science Group*



Specifications

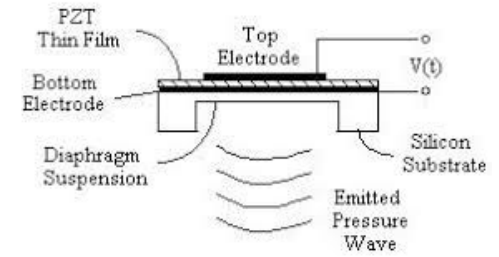
- Field 100 V (500KV/cm).
- Frequency 20 Hz to 1Khz
- Fatigue up to 20th order of cycles
- Resolution 18 bit
- Temperature RT- 200 degree with microprobe station
- Complete data transfer to standard software like Origin xls.
- Full PC controlled operation using PC USB/ISA interface
- 19 inches rack mountable unit
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Polarization Specifications

Minimum Charge sensitivity 0.1 n C
 Minimum PZT area 0.5 u m

Multi Ferroic test system specifications

- Output Range 20 Volt bipolar
- 16 Bit Wave form generator
- 100 points in 10 micro seconds
- 1000 points in 30 seconds
- Pulse width 1 uS – 1 S
- 18 Bit AD convertor
- Capture rate 0.5 uS with 0.1 uS interlased
- Test fixtures for thin and thick films.



References

- Solid State Lab (SSPL) Delhi
- IIT Mandi
- Indian Institute of Science Bangalore
- CAT Indore
- IIT Delhi
- Rajkot Saurashtra University
- IIT Roorkee
- Shimla university
- Cat indore
- IIT Chennai
- Delhi University
- IASC Calcutta
- DMRL Hydrabad
- Osmania Univeristy

The full list is very exhaustive but above is only few major references.