



Strain Measurement System

About the system

The strain measurement system uses a LVDT with movable nickel-iron core that is Attached to a non-contacting (ie. friction less) manner in the LVDT main body. The overall measurement unit rests on vibration pads. Total operations are performed in windows and are fully automatic.

- Strain at diff. temp
- Strain at diff. frequencies

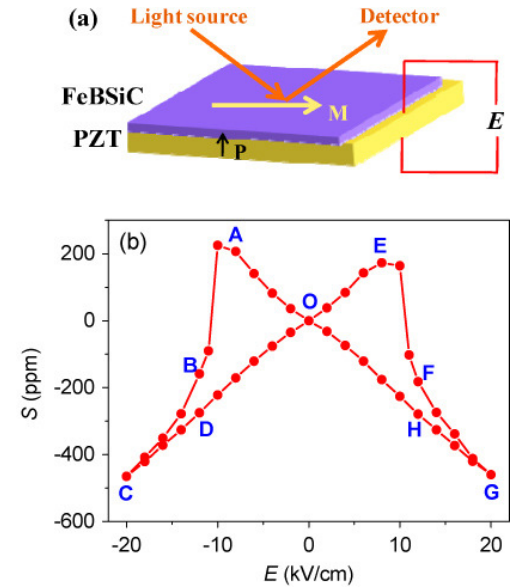


About Us

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

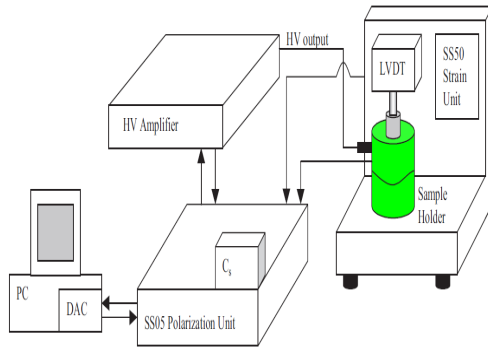
- PE loop tracer system
- BH loop tracer systems
- Multi Ferroic Test system
- Resistance measurement systems
- Electromagnets
- DC polling unit
- AC/DC power supplies
- Source Measure Unit
- LCR Meter/Impedance analyzers interfacing, software's



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*Application Oriented Basic
Science Group*



General Specifications

- Field 4 KV
- Frequency 0.1 Hz to 1 KHz
- Resolution 18 bit
- Temperature RT- 200 degree with PID control
- LVDT Sensor Option A
- Laser Interferometer Option B
- 16 bit PCI digital input/output card 8 dual channel
- PCI signal conditioner (Analogue to digital converter) card 8 dual channel
- Data collection and processing software
- RS232 interface required
- 19 inches rack mountable unit
- Silicon oil 500ml

LVDT specifications

Nominal range 1.25 mm
 Input 4- 20 mA
 Input freq 3 KHz
 Non linearity response 0.25%
 Output 1- 5 Volts

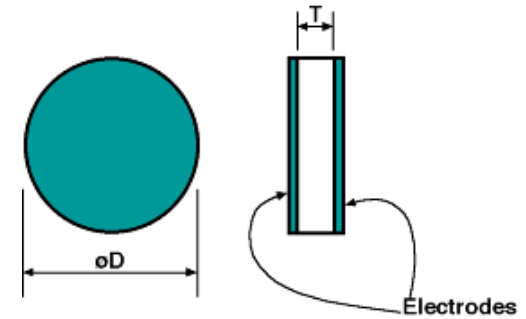
Laser specifications

Nominal range 0.25 mm
 Input 4- 20 mA
 Input freq 3 KHz
 Non linearity response 0.1%
 Output 1- 5 Volts
 Vibration free table necessary for Laser based setup

System test specifications

High Voltage Amplifier

- Field 0 to 4 kV
- Current 0 to 10mA
- Frequency Range 0.1 to 1 KHz
- Input 10 V bipolar
- Output 4 KV
- Accuracy 1% of range
- Resolution 0.1%



General 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 Hyderabad
- Osmania Univeristy

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