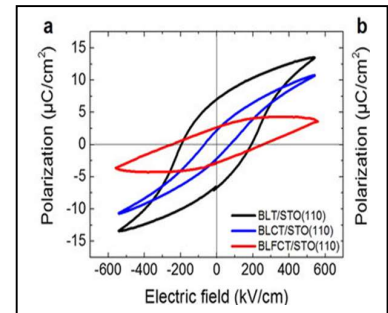


# PE HYSTERESIS TESTER



## ABOUT THE SYSTEM

The Ferroelectricity is a characteristic of certain materials that have continuous electric polarization that can be reversed by the application of an external electric field. All ferroelectrics are pyroelectric, with the additional property that their natural electrical polarization is reversible. The term is used in analogy to ferrimagnetism, in which a material exhibits a permanent magnetic moment. When most materials are polarized, the polarization induced,  $P$ , is almost exactly proportional to the applied external electric field  $E$ ; so, the polarization is a linear function. PE Hysteresis tester is designed and developed by our company and has recognition worldwide. The new testing system is digital and total operations are performed by oscilloscope for BSC MSC practicals.



## MODEL: 20PE 1KHZ

**Test Performed by this Model:** PE Hysteresis at different temperature.

List of Deliverables	
PE Hysteresis Tester Unit	Temperature stage
High Temperature Sample holder	Inter connecting cables and manual
Silicon Oil 500 ml	Standard PZT sample, Manual

Technical Specification	
Field 1KV	Bulk HV 20 u C
Current limit 2 mA	XY probes output for oscilloscope
Overload protections	2 external sensor input 5 V bipolar
Minimum Charge sensitivity 0.1mC	Temperature RT-250.C
Minimum PZT area 1 sqmm	High Temperature Sample holder
Minimum Charge measurement	Silicon Oil 500 ml, Standard PZT sample, Manual

## MARINE INDIA

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