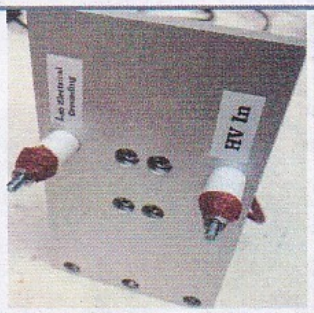
State College δ+ PolyK δ- PA, USA

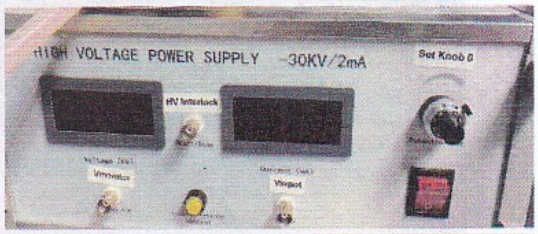
Piezo Contact Poling System

PolyK Technologies provides low-cost customized piezo poling and ferroelectric test systems to investigate ferroelectric, piezoelectric, and high voltage dielectric materials.

Contact Poling (30 kV):

This poling system is designed for university research projects with the objective to develop piezo materials with different compositions, poled under different voltage, time, and temperature. It is a versatile lab tool for researchers to efficiently evaluate the effects of various parameters at the lab scale:





1. Power supply (poling voltage): 0 to + 30 kV, continuously adjustable by a knob in the front panel, or by analog input signal with gain of 12,000 (1 V input, output +12,000 V, input signal up to +2.5 V and output up to +30,000 V).
2. Poling Current: 0 to + 2 mA
3. Power supply with analog monitor, output 1 V analog signal equivalent to +30 kV high voltage.
4. Power supply with high voltage magnetic interlock [Require customer's high voltage cabinet]
5. Poling fixture: for samples up to 50 mm x 50 mm
6. Poling fixture insulation rated up to +30 kV
7. Poling fixture thermal limit: up to 250 ° C [customer provide hot silicone oil].
8. Poling fixture mechanical: spring loaded top electrode to control the pressure applied on sample and keep good electrical contact.

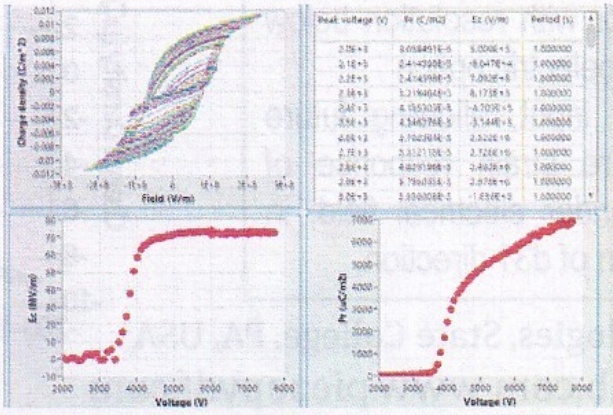
Options:

1. Voltage up to +50 kV
2. Safety: high voltage cabinet
3. Software control
4. Multiple channels
5. Larger sample size

Non-Contact Corona Poling

- Up to 100 mm x 100 mm size
- Up to 200 °C, with grid.
- Option of softwire control

Ferroelectric + Quantitively AC Poling



Berlincourt Quasi static Piezo d_{33} Meter

- Low cost, in stock
- Digital static force sensor to improve reproducibility

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