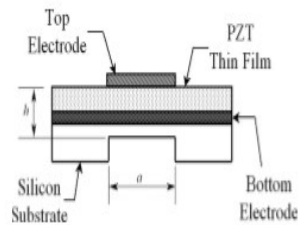


D33 METER

MODEL D33PZO



ABOUT THE SYSTEM

The model D33PZO d33 meter is a special instrument directly to measure piezoelectric constant d_{33} values of piezoelectric ceramics, polymers, and single crystals. This meter can also measure d_{33} value in various single crystal materials, such as lithium niobate, quartz, and tourmaline. This meter is capable of measuring d_{33} value over a very large range, at high resolution, and with a high degree of reliability. The measurement is quickly, and easily made with a minimum of training required. Specimens of a variety of sizes and shapes can easily be accommodated and measured. For example: d_{33} value of disks, blocks, rings, tubes and semi spherical shells can be easily measured and displayed on the Model D33PZO d33 meter. Measuring d_{33} value is displayed on a 3 1/2-inch digital meter. This instrument is invaluable as a tool for quality assurance of piezoelectric materials, production in-line inspection, or for research applications.



MODEL D33PZO

Various tests performed by this model

- Piezoelectric constants
- Resonance Method – (Piezo Test Set-up)

MARINE INDIA
A3/25B Green Apartment
Near Jawla Heri Market,
Paschim Vihar
New Delhi - 110063, INDIA
Email: sales@marineindia.com
Ph-9810289961
+91 11 41428187

D33 METER

General Specifications

D33 Range:

- x 1 range: 10 to 2000 PC/N
- x 0.1 range: 1 to 200 PC/N

Force:

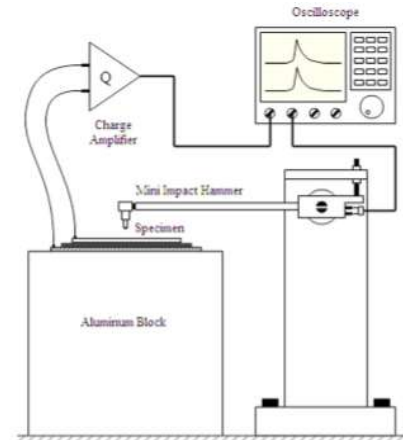
- Frequency: 110Hz
- Amplitude: 0.25N

Dimensions:

- Force Head: 110x140mm
- Chassis: 280x200x90mm

Weight:

- Force Head: 3 kgs, Chassis: 2 kgs



System Test Specification

Accuracy:

- x 1 range: $\pm 2\%$ of d33 value in 100 to 2000 PC/N
 $\pm 5\%$ of d33 value in 10 to 200 PC/N
- x 0.1 range: $\pm 2\%$ of d33 value in 10 to 200 PC/N
 $\pm 5\%$ of d33 value in 1 to 20 PC/N

Resolution:

- x 1 range: 1 PC/N
- x 0.1 range: 0.1 PC/N

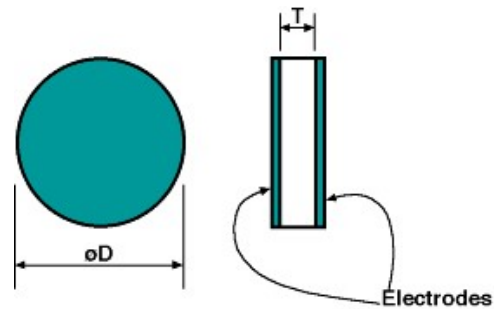
Shunt Capacitance:

- 1 pF (for x 1 range)
- 0.1 pF (for x 0.1 range)

Optional accessories

Spare standard load

D33 METER



List of Deliverables

- D33 main unit
- Force Head
- Standard test sample
- Power cord
- manual

List of users

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