

Piezoelectric d33 meter

Model PM3001

The PM3001 d33 Meter is a special instrument for directly measuring the piezoelectric constant d33 values of piezoelectric ceramics, polymers, and single crystals over a very large range, at high resolution, and with a high degree of reliability. This meter can also measure the d33 values in various single crystal directions for crystals such as lithium niobate, quartz, and tourmaline.



Applications

- Quality assurance of piezoelectric materials
- In-line production inspection
- Research and development applications involving piezoelectric materials

Specifications

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|------------------------------|--|
| d₃₃ range: | X1 range: 10 to 2000 pC/N X0.1 range: 1 to 200 pC/N |
| Accuracy: | X1 range: ±2% d33 value; 100 to 2000 pC/N ±5% d33 value; 10 to 200 pC/N X0.1 range: ±2% d33 value; 10 to 200 pC/N ±5% d33 value; 1 to 20 pC/N |
| Resolution: | X1 range: 1 pC/N X0.1 range: 0.1 pC/N |
| Force: | 0.25 N at Frequency: 110 Hz |
| Polarity indication: | Indicates polarity on upper face of test element in compression. (- sign means negative) |

Features

- 3.5 inch digital display
- Force/d33 mode
- Zero adjust
- Power switch
- Output plug

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| Force Head dimensions: | 110x140mm |
| Chassis dimensions: | 280x200x90mm |
| Force Head weight: | 3 kg |
| Chassis weight: | 2 kg |
| Power: | 110/220V, 50/60Hz, 20W |
| Shunt Capacitance: | X1 range: 1 pF X0.1 range: 0.1 pF |

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