

Piezoelectric d33/d31 meter

Model PM3500

The PM3500 d33/31 Meter is a special instrument for directly measuring the piezoelectric constant d33 and d31 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 and d31 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

d_{33/31} 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 100 pC/N X0.1 range: ±2% d33 value; 10 to 200 pC/N ±5% d33 value; 1 to 10 pC/N X1 range: ±8% d31 value; 10 to 200 pC/N ±10% d31 value; 1 to 10 pC/N X0.1 range: ±8% d31 value; 10 to 200 pC/N ±10% d31 value; 1 to 10 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 and d33/d31 mode
- Zero adjust
- Capability of d31 measurement

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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