

Piezoelectric Ceramic d₃₃ Calibrator

The d_{33} calibrator is a special instrument for directly measuring the piezoelectric constant d_{33} values of piezoelectric ceramics, polymers, and single crystals. This meter can also measure the d_{33} values in various single crystal directions for crystals such as lithium niobate, quartz and tourmaline. It is also capable of measuring the d_{33} value over a very large range, at high resolution, and with a high degree of reliability. The measurement is quick and easily made with a minimum amount of training required. Specimens of a variety of sizes and shapes can easily be accommodated and measured. For example, the d_{33} value of disks, blocks, rings, tubes, and semispherical shells can be measured using the d_{33} meter. The direct d_{33} value readout is displayed on a 3.5 inch digital display. This instrument is invaluable as a tool for quality assurance of piezoelectric materials, production in-line inspection, and for research applications.



Specifications

x 1 range:	10 to 2,000pC/N
x 0.1 range:	1 to 200pC/N
x 1 range:	$\pm2\%$ of the d_{33} value in 100 to 2,000pC/N
	\pm 5% of the d ₃₃ value in 10 to 200pC/N
x 0.1 range:	\pm 2% of the d ₃₃ value in 10 to 200pC/N
	\pm 5% of the d ₃₃ value in 1 to 20pC/N
x 1 range:	1pC/N
x 0.1 range:	0.1pC/N
0.25N	
110Hz Amplitude	
Indicates polarity on upper face of test element in compression	
x 1 range:	1 pF
x 0.1 range:	0.1pF
110mm x 140mm	
280mm x 200mm x 90mm	
3kg	
2kg	
110/220V, 50/60Hz, 20W	
	x 0.1 range: x 1 range: x 0.1 range: x 1 range: x 1 range: x 0.1 range: 0.25N 110Hz Amplitud Indicates polarity x 1 range: x 0.1 range: 110mm x 140mr 280mm x 200mr 3kg 2kg