APC International, Ltd.
213 Duck Run Road, P.O. Box 180
Mackeyville, Pennsylvania 17750 USA
Tel: +1 570 726 6961, Fax: +1 570 726 7466
sales@americanpiezo.com
www.americanpiezo.com

Wide-Range D_{33} Tester

APCI Catalogue Number: 90-2030.1

This d33 tester will enable the user to measure d33 values over a very wide range, at high resolution, and with a high degree of reliability. The wide-range unit accommodates elements of varied size and shape, and displays readouts directly. For single crystals of lithium niobate, quartz, tourmaline, etc., d33 values can be measured in various directions. No additional equipment is needed to operate the wide-range unit, either for obtaining d33 values or determining polarity. Polarity is indicated as part of the readout: a (-) sign indicates the upper face of the element in the tester is negative, no sign indicates the upper face is positive. The unit is compatible with either 110 VAC or 220 VAC power.

Specifications

Measurable d33 Range:	x 0.1 range: 1 - 200 pC/N x 1 range: 10 - 2000 pC/N
Accuracy:	x 0.1 range: ±5% of d33 value from 1 - 20 pC/N ±2% of d33 value from 10 - 200 pC/N x 1 range: ±5% of d33 value from 10 - 200 pC/N ±2% of d33 value from 100 - 2000 pC/N
Resolution:	x 0.1 range: 0.1 pC/N x 1 range: 1 pC/N
Force:	frequency: 110 Hz amplitude: 0.25 N
Shunt Capacitance:	x 0.1 range: 0.1 pF x 1 range: 1 pF
Dimensions:	force head: 110 mm x 140 mm chassis: 280 mm x 200 mm x 90 mm
Weight:	force head: 3 kg chassis: 2 kg
Power:	110-240 VA C / 50/60 Hz / 20 W





