PiezoMeter System PM300 Technical Specification

High Precision, Piezoelectric $d_{33}$ Testing System
Measuring $d_{33}$ in four ranges, capacitance and tan $\delta$

### Piezoelectric Tests

<table>
<thead>
<tr>
<th>Range</th>
<th>Capacitance</th>
<th>Dielectric Tests</th>
</tr>
</thead>
<tbody>
<tr>
<td>$d_{33}$ - Very High Range</td>
<td>$10 \text{ pF to } 0.1 \mu\text{F}$</td>
<td>Capacitance range: $10 \text{ pF to } 0.1 \mu\text{F}$</td>
</tr>
<tr>
<td>$d_{33}$ range</td>
<td>$100 \text{ to } 10,000 \text{ pC/N}$</td>
<td>Accuracy ($&lt; 100 \text{ pF}$): $\pm 2% \text{ to } 0.1 \mu\text{F}$</td>
</tr>
<tr>
<td>Accuracy</td>
<td>$\pm 2% \text{ to } 0.1 \mu\text{F}$</td>
<td>Frequency range: $0.1 \text{ Hz to } 300 \text{ Hz}$</td>
</tr>
<tr>
<td>Loading</td>
<td>$1.0 \mu\text{F}$</td>
<td>Accuracy ($&gt; 100 \text{ pF}$): $\pm 2% \text{ to } 0.1 \mu\text{F}$</td>
</tr>
</tbody>
</table>

### Remote Operation

The PiezoMeter may be controlled by a computer equipped with Windows. A free serial port, or suitable USB-Serial adapter, is required. All PiezoMeter functions may be controlled.

### Remote Interface $\delta$

Industry standard RS-232C interface, configured as data terminal equipment (DTE) using 9 pin D-connector. RS-232 parameters: 9600 baud, 1 stop bit, no parity. Connection is by a standard PC serial file transfer cable (supplied).

### Power supply

220-240V a.c. 50-60Hz 0.5A or 100-120V a.c. 50-60Hz 1A (Specify with order).

### Temperature Limits

Storage: 0°C to 50°C
Operating: 10°C to 40°C
System calibrated: 25°C

### Physical dimensions

Electronics unit: 350 x 230 x 90 mm
Force unit: 145 x 150 x 175 mm
Total Unpacked Weight: Approx. 13 Kg
Total Packed Weight: Approx. 20 Kg

For more details, or to arrange a demonstration, contact:

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Specification correct at 1st January 2018. Piezotest reserves the right to change specifications without notice when necessary.