IMULSE FORCE HAMMER

Model No. 086C01
Serial No. 13426

Range 0 - 100 lb.
Linear error < 1.0 %
Discharge Time Constant 500 s
Output Impedance 100 ohms
Output Bias 10.42 volts

Traceable NIST project No. 822/262123-99 in compliance with ISO 10012-1, and former MIL-STD 45662A.
Technician Travis Lodige Date 04-27-2000

Accelerometer Model No. 302A07 Serial No. 7807 Sensitivity 3.69 mV/g
Pendulous Test Mass 1.05 lbs (476.0 grams) including accelerometer.

HAMMER SENSITIVITY:

<table>
<thead>
<tr>
<th>Hammer Configuration</th>
<th>Tip Extender</th>
<th>PLASTIC/VINYL WITH TUNING MASS</th>
<th>PLASTIC/VINYL WITH TUNING MASS</th>
<th>PLASTIC/VINYL</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>NONE</td>
<td>ALUMINUM</td>
<td>NONE</td>
</tr>
<tr>
<td>Hammer Sensitivity ($\beta$) mV/lb</td>
<td>54.6</td>
<td>56.6</td>
<td>50.4</td>
<td></td>
</tr>
<tr>
<td></td>
<td>(mV/N)</td>
<td>12.3</td>
<td>12.7</td>
<td>11.3</td>
</tr>
</tbody>
</table>

Above data is valid for all supplied tips.

NOTES:
1. To convert a measurement (typically mV) to engineering units (lbs or g’s), each channel must be divided by its sensitivity (mV/lb or mV/g).
2. Each specific hammer configuration has a different sensitivity. The difference is a constant percentage which depends on the mass of the cap and tip assembly relative to the total mass of the head. Calibrating the specific hammer structure being used automatically compensates for mass effects.
3. PCB hammers 086602, 803 and 804 may be calibrated by mounting the Model 302A07 Accelerometer on the back of the hammer head, impacting a convenient surface and measuring the output of both hammer (VH) and accelerometer (Vg).

   Hammer sensitivity $S = \frac{VH}{Vg}$, where 'm' is the Effective Mass and 'Sa' is Accelerometer Sensitivity.

   Effective Mass N/A with 302A07 attached and vinyl-capped plastic tip.

PCB PIEZOTRONICS, INC. 3425 WALDEN AVENUE DEPEW, NY 14045-2495 PHONE 716-684-0001 TWX 710-263-1371 FAX 716-684-0987