MODEL NO. | SENSITIVITY
--- | ---
5850B | 1, 10, 100 mV/LbF

FORCE SENSOR
PERMANENTLY ATTACHED
DO NOT ATTEMPT REMOVAL

SUPPLIED IMPACT TIPS
MODELS 6250A, P & PS

RUBBERIZED GRIP

FIBERGLASS HANDLE

BNC CONNECTOR

SENSITIVITY SELECT
3 POS. TOGGLE SWITCH

#1/4-28 UNF-2B THREADED HOLE

MASTER
ONLY IF IN RED

1. WEIGHT - 256 GRAMS

EXCEPT AS OTHERWISE NOTED
ALL DIMENSIONS IN INCHES
TOLERANCE: XXX ± X

SURFACE FINISH
EXCEPT AS NOTED

BREAK EDGES TO DEBURR
RADIUS OR CHAMFER

THESE DIAS TO
TJ.R.

FILLETS - MAX RAD.

OUTLINE/INSTALLATION DRAWING,
IMPULSE HAMMER 5850B

DYTRAN
INSTRUMENTS, INC.

CHATS WORTH, CA.

127-5850B

SCALE 1X
DATE 11/1/95
DRAWN D.Z.
CHECKED N.C.
APPROVED N.C.
USED ON

EXCEPT AS OTHERWISE NOTED
ALL DIMENSIONS IN INCHES
TOLERANCE: XXX ± X

SURFACE FINISH
EXCEPT AS NOTED

BREAK EDGES TO DEBURR
RADIUS OR CHAMFER

THESE DIAS TO
TJ.R.

FILLETS - MAX RAD.

OUTLINE/INSTALLATION DRAWING,
IMPULSE HAMMER 5850B

DYTRAN
INSTRUMENTS, INC.

CHATS WORTH, CA.

127-5850B
**PERFORMANCE SPECIFICATION**

**Model Number**
5850B

**Model**
PS5850B

**IMPULSE HAMMER**

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This family also includes:

- **3-POSITION SENSITIVITY TOGGLE SWITCH**
- **EXCELLENT LINEARITY**
- **INTERCHANGEABLE IMPACT TIPS**

---

**PHYSICAL**

<table>
<thead>
<tr>
<th>Weight, Head</th>
<th>5.3 oz</th>
<th>150 grams</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight, Total</td>
<td>9.6 oz</td>
<td>275 grams</td>
</tr>
</tbody>
</table>

**Connector**

BNC

**Handle Material**

Stainless Steel

**Sensing Element Material**

Quartz

**Impact Tips Material**

Aluminum / Plastic

**Handle Material**

Fiberglass

**Impact Tips Material**

Aluminum / Plastic

**Sensing Element Mode**

Compression

---

**PERFORMANCE**

<table>
<thead>
<tr>
<th>Sensitivity, ±10 %</th>
<th>mV/LbF</th>
<th>mV/N</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>0.2 mV/LbF</td>
<td>0.2 mV/N</td>
</tr>
<tr>
<td>10</td>
<td>2.2 mV/LbF</td>
<td>2.2 mV/N</td>
</tr>
<tr>
<td>100</td>
<td>22.2 mV/LbF</td>
<td>22.2 mV/N</td>
</tr>
</tbody>
</table>

**Range at 1 mV/LbF**

<table>
<thead>
<tr>
<th>Lbs. Force</th>
<th>5,000 Lbs. Force</th>
<th>22,241 N</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lbs. Force</td>
<td>500 Lbs. Force</td>
<td>2224 N</td>
</tr>
<tr>
<td>Lbs. Force</td>
<td>50 Lbs. Force</td>
<td>222 N</td>
</tr>
</tbody>
</table>

**Maximum Input Force at 1 mV/LbF**

<table>
<thead>
<tr>
<th>Lbs. Force</th>
<th>8,000 Lbs. Force</th>
<th>35,586 N</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lbs. Force</td>
<td>6000 Lbs. Force</td>
<td>26,689 N</td>
</tr>
<tr>
<td>Lbs. Force</td>
<td>1000 Lbs. Force</td>
<td>4484 N</td>
</tr>
</tbody>
</table>

**Discharge Time Constant at 1 mV/LbF**

<table>
<thead>
<tr>
<th>Sec</th>
<th>1500 Sec</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sec</td>
<td>150 Sec</td>
</tr>
<tr>
<td>Sec</td>
<td>15 Sec</td>
</tr>
</tbody>
</table>

**Linearity [1]**

<table>
<thead>
<tr>
<th>±1 % Full Scale</th>
<th>±1 % Full Scale</th>
</tr>
</thead>
<tbody>
<tr>
<td>±1 % Full Scale</td>
<td>±1 % Full Scale</td>
</tr>
</tbody>
</table>

**Resonant Frequency**

> 75 kHz

**Stiffness, Force Sensor**

11.4 Lb/μin

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**ELECTRICAL**

<table>
<thead>
<tr>
<th>Output Voltage F.S.</th>
<th>±5 V</th>
<th>±5 V</th>
</tr>
</thead>
<tbody>
<tr>
<td>Output Impedance, Max.</td>
<td>100 Ω</td>
<td>100 Ω</td>
</tr>
<tr>
<td>Bias Voltage</td>
<td>7.5 to 12 VDC</td>
<td>7.5 to 12 VDC</td>
</tr>
<tr>
<td>Compliance Voltage Range</td>
<td>18 to 30 VDC</td>
<td>18 to 30 VDC</td>
</tr>
<tr>
<td>Supply Current Range</td>
<td>2 to 20 mA</td>
<td>2 to 20 mA</td>
</tr>
</tbody>
</table>

**ENVIROMENTAL**

<table>
<thead>
<tr>
<th>Operating Temperature</th>
<th>-40 to +151 °F</th>
<th>-40 to +66 °C</th>
</tr>
</thead>
</table>

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**NOTES**: Refer to the performance specifications of the products in this family for detailed description.

**Supplied Accessories**:

1) Accredited calibration certificate (ISO 17025)
2) Impact tips: 1X Model 6250A (aluminum), 1X Model 6250P (plastic), 1X model 6250PS (soft plastic)

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