Low Cost Electronic Shock Detector for Shipment Monitoring

- NEW! Low Cost, Disposable Shock Detector with Time-Stamp
- Live LCD Time Display, Once Activated
- Bi-axial Sensor, Completely Self Contained
- Rough Handling “Freezes” the Clock
- 4-Month Battery Life Once Activated
- 6-Month Shock Time-Stamp Retention
- Available in Several G-Trip Level Ranges
- Very Simple to Install and Activate
- Easy to Read At-a-Glance at Destination
- Built-in Lithium Battery
- Lightweight - 1.5 ounces

Introducing the revolutionary, new, solid state, electronic SHOCK TIMER. This low cost, patented monitoring device is an electronic, self-contained, battery operated, shock detector with time stamp. Once installed and activated by the user, the SHOCK TIMER measures bi-axial shocks and impacts on the surface plane (product or shipping container) to which it is mounted. If any shocks occur that exceed the trip level for the SHOCK TIMER, then the clock stops, freezing the time point. This provides solid documentation of when excessive handling occurred and may correlate to in-transit damage. This information may also be used to assign liability for in-transit damage and possible evidence in legal claims against carriers for in-transit damage. This information can also be useful in identifying how or why rough handling took place, and lead to corrective actions to reduce damage in the future.

Other low cost shock indicators provide no date/time information. Accordingly, it is difficult to use these indicators to assign liability and make it stick! The new SHOCK TIMER provides the time information needed to know, when, where and who was responsible!
Applications

- Shipment monitoring of packages, pallets, containers, trucks, railcars, loose cargo, air-freight, missiles, ordnance, sensitive military & aerospace electronics, avionics, computers, servers, telecom equipment, machine tools, photo-lithographic equipment, delicate medical or laboratory instruments, glass & porcelain.
- Also acts as a deterrent to rough handling
- Useful as a "Go" and "No Go" indicator for product acceptance
- Low cost makes large scale statistical sampling of distribution channels affordable!

How to use SHOCK TIMER

Remove the sticker on the back and attach to the machine (product) or the outside of a package or shipping container. SHOCK TIMER provides strong acrylic plastic adhesive so it can be attached to a wooden surface and will not fall off. After securely attaching SHOCK TIMER write the timer activation time on the line indicated, and start the timer. To start the timer, pull the white tab out and discard.

Select The G-Trip Level

<table>
<thead>
<tr>
<th>Type</th>
<th>Shock Level</th>
<th>Model</th>
</tr>
</thead>
<tbody>
<tr>
<td>Small shock</td>
<td>25G±20% (10 msec.)</td>
<td>A-25</td>
</tr>
<tr>
<td>Medium shock</td>
<td>50G±20% (10 msec.)</td>
<td>A-50</td>
</tr>
<tr>
<td>Severe shock</td>
<td>75G±20% (10 msec.)</td>
<td>A-75</td>
</tr>
<tr>
<td>Evaluation kit</td>
<td>Five(5) of each level</td>
<td>A-1</td>
</tr>
</tbody>
</table>

In order to provide the most accurate results, the shock fragility level of the product being shipped should be known, or at least estimated. This information along with the cushioning provided by the packaging will enable the proper range to be selected. IST would be pleased to provide applications support in selecting a proper range for your product shipment monitoring requirements.

Installation

If you are installing SHOCK TIMER on the outside of a package, be sure to install it near a corner of the package for best shock detection results. If you are installing it on a container or within a palletized load, be sure to attach it onto a rigid structural member for best results. Avoid installing SHOCK TIMER in a location that may become very wet or have standing water (eg. floor of a sealed sea container).

For more information contact:

IST Instrumented Sensor Technology

4704 Moore Street  Okemos, MI 48864-1722  www.isthq.com
Tel: 517-349-8487  Fax: 517-349-8469  email: info@isthq.com

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