Shock Timer

IST

Shock Sensor

"It's About Time, You Knew..."

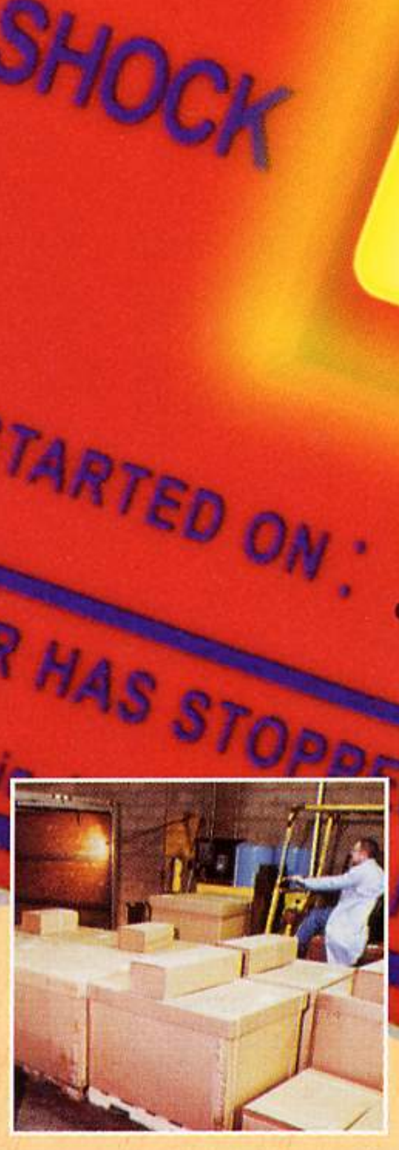
Low Cost Electronic Shock Detector for Shipment Monitoring

- *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!















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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

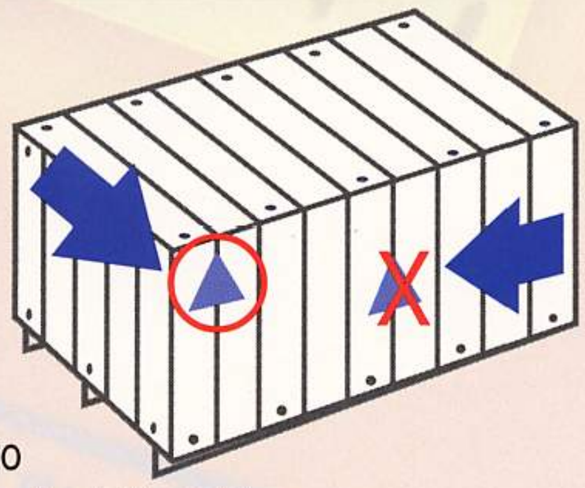
Remove the sticker on the back and attach to the machine (product) or the outside of a package or shipping container. **SHOCK TIMER** provides strong acrylic plastic adhesive so it can be attached to a wooden surface and will not fall off. After securely attaching **SHOCK TIMER** write the timer activation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



Peel-off and apply to package. Write activation time. To activate... pull out white tab and discard

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).



Select The G-Trip Level

Type	Shock Level	Model
Small shock	25G±20% (10 msec.)	A-25
Medium shock	50G±20% (10 msec.)	A-50
Severe shock	75G±20% (10 msec.)	A-75
Evaluation kit	Five(5) of each level	A-1

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.



Start a damage reduction program today! Start using SHOCK TIMER on ALL of your fragile/high value shipments!

Product Specifications

Size:	4.7" x 4.1" x 0.5"
Weight:	1.8 ounces
Shock detection:	Bi-axial, in x-y plane of mounting surface
Monitoring time:	2999 hours (125 days)
Hold time:	4000 hours (166 days)
Temperature range:	-40˚F to 158˚F -40˚C to 70˚C
Term of validity:	1 year
Case:	ABS resin
Adhesive:	Acrylic adhesive
Battery:	Lithium battery (LR-43)

Notes

- If you did not install **SHOCK TIMER** to your product, but to the package, the shock your product experiences may be different from the one the sensor experiences.
- **SHOCK TIMER** does not record the shock, only trips when the trip level is met or exceeded.
- **SHOCK TIMER** does not guarantee that your product will not be damaged in shipment.
- **SHOCK TIMER** is not waterproof or dustproof.
- In case of malfunction of this product or any damages caused by using this product, IST will repair or replace the product but will not assume responsibility for any damages.

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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