SHOCKSWITCH ID

SHOCKWATCH®

Increase employee safety while decreasing facility/product damage with Shockswitch ID—A PC-driven way to comply with OSHA regulations



The Shockswitch ID is a valuable resource for any company that wants to insure OSHA compliance regarding forklift operation and at the same time decrease damage to their equipment and facility.

The complete Shockswitch program is designed to aid managers in:

- Reducing forklift maintenance costs
- Improving driving habits
- Reducing rack and product damage
- Complying with OSHA standards
- Providing ongoing driver training
- Creating a safer, more productive work environment

Shockswitch ID Features

- **Control Vehicle Access:** PC driven databases record authorized operators by forklift
- **Monitor Driver Training:** Shockmate software tracks need for operator retraining
- **Log Impacts:** Record impacts by date, time, driver ID
- **Alarm Duration:** Program unit to sound alarm upon impact
- **Inactivity Logoff:** Program forklift to shut down after a specified time limit
- **Maintenance Timer:** Schedule audible alert for planned maintenance checks
- **Lockout/tagout:** Shockswitch ID can be used to lock out a truck needing repair
- **Halt on Impact/Halt Delay:** Program for immediate halt after impact or with delay

Shockswitch ID Operation

Control Forklift Access & Identify Operator

The Shockswitch ID integrates with a forklift's ignition system to identify and limit access to trained operators. The Shockswitch ID requires a prospective driver to "log on" using an iButton Operators Key that fits a simple key reader on the unit. The iButton serves as a critical component in the interface between the Shockswitch unit and the monitoring software - Shockmate. Once properly coded, the Shockswitch ID will not allow the forklift to be operated without an authorized iButton key.

iButtons are a proven technology in a wide variety of industries. The use of iButtons as a means to identify forklift operators versus an operator code system is preferred due to the security it provides to both operator and company.

Designate Specific Drivers To Operate A Forklift

The exclusive Shockmate software aids in complying with OSHA regulations concerning forklift driver training and certification. Upon setup using an IBM-compatible PC, the software will ask for information, such as forklift type and ID number. Driver information including names and certifications will also be collected. Based on this data, a supervisor will use a special Programming Key to relay setup information to each Shockswitch ID-equipped forklift. Shockswitch ID will allow only drivers with authorized keys to operate each lift. The software also alerts the expiration dates of certifications.

Assign Abnormal Lift Impacts To Operator



The Shockswitch ID is equipped with an adjustable impact sensor. When an impact exceeding the sensor's threshold is sustained, the time, date, and driver ID are recorded. This information is stored in memory for later downloading to a computer for analysis.

The Shockswitch ID can be programmed by the user to react to an impact in various ways.

- Record only the time, date, and driver ID
- Turn on the forklift horn after impact for a specific period of time (1 to 59 seconds)
- Latch the forklift horn on continuously after impact until a supervisor resets it.
- Disable the forklift.

Shockswitch In A PC Environment



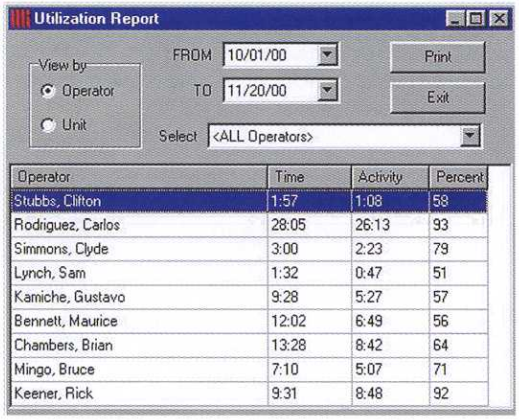
A manager using Shockmate software can enter equipment operating parameters to create a safe operation program for the forklift fleet. Upon impacts beyond the desired threshold, alarms can be set to sound continuously until reset by a black Supervisor's Key for up to 59 seconds. For added safety, shutdowns after impact can be delayed by up to 255 seconds to allow the equipment to be moved out of harm's way.

Planned maintenance alert schedules from 50 hours to 999 hours can be programmed into the unit. Resetting of the timer





is accomplished with the blue Maintenance Key. In addition the Maintenance Key is used as a lockout/tagout device. With inactivity versus running time being measured, the software calculates efficiency and utilization of both operators and equipment.



Operator	Time	Activity	Percent
Stubbs, Clifton	1:57	1:08	58
Rodriguez, Carlos	28:05	26:13	93
Simmons, Clyde	3:00	2:23	79
Lynch, Sam	1:32	0:47	51
Kamiche, Gustavo	9:28	5:27	57
Bennett, Maurice	12:02	6:49	56
Chambers, Brian	13:28	8:42	64
Mingo, Bruce	7:10	5:07	71
Keener, Rick	9:31	8:48	92

All information recorded into the unit is retrieved with the yellow Managers Key. This key retrieves the data and stores it for upload to a computer running the Shockswitch ID Shockmate software. The Manager's Key is placed in a reader and the Shockmate software prints out the data on a computer's printer.

Shockswitch Specifications

Operating Temperature:	-20C to +60C -4F to +140F
Operating Humidity:	0-100% Non-condensing
Operating Shock:	10G (nondestructive) 100G (destructive)
Case Size:	4.33 in. X 4.33 in. X 2.8 in.
Case Material:	Polystyrene
Case Rating:	NEMA 4X
Weight:	2.5 lbs.
Power source:	10 – 60 VDC
Impact Detection:	User adjustable threshold sensor
Impact Detection Range:	.3G to 7G
Data Storage Capacity:	200 events (Operator log on/off) (Impact time/date)
Data Retrieval:	With Yellow Manager's Key
Relay Output:	Open Contact fused @ 5amps Closed Contact fused @ 10 amps
Output Alarm:	Piezoelectric 98db.

Setkey Software Requirements

Operating system:	Win 95, Win 98, Win NT
Memory:	6 Mb hard drive, 8 Mb RAM

About Shockwatch

Shockwatch, a division of Media Recovery, develops, manufactures and markets a broad range of impact, tilt and temperature monitoring and damage prevention products. Shockwatch products, known for high quality, excellent reliability and leading technology, are distributed worldwide by an internal sales force and a network of strategic partners and resellers. Founded in 1974, the company is headquartered in Dallas, Texas and is privately owned.

Lamerholm Fleming Ltd
Isaac Newton House
Norton Road
Stevenage, Herts
SG1 2BB, UK
Tel: 44(0)1438 728844
Fax: 44(0)1438 742326
Email: sales@lamerholm.com

Shockswitch, Shockmate and Shockwatch are trademarks of Media Recovery, Inc. iButton is a trademark of Dallas Semiconductors, Inc.