

TSR101-EB TRI-AXIAL TRANSIENT SHOCK RECORDER WITH EXTENDED BATTERY

Features

- Records 3-axis shock (X,Y and Z)
- Built-in accelerometers
- Measures dynamic and static acceleration
- Low cost
- Programmable start time
- Reusable
- 30 day battery
- Optional password protection

Applications

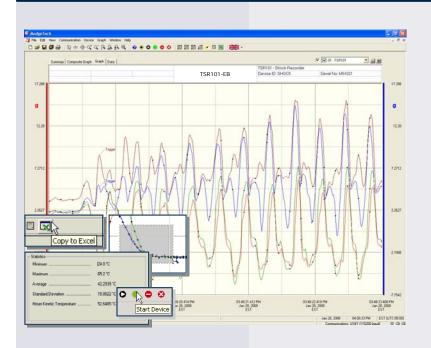
- Fragility testing
- Laboratory drop testing
- Brake testing
- Assembly line monitoring
- Aircraft turbulence measurement
- Machinery monitoring
- Railcar coupling impacts
- Shipment monitoring

TSR101-EB is he а battery powered, stand transient tri-axial alone shock recorder. The TSR101 -EB measures and records instantaneous shock levels when the user-selectable shock levels have been exceeded. There are 15 rates to chose from ranging from 1024Hz to 1 Hz. The TSR101-EB is valuable in



characterizing environments such as railcar coupling impacts and aircraft turbulence monitoring.

This is an all-in-one compact, portable, easy to use device that will measure and record approximately 349,000 measurements per axis. The storage medium is non-volatile solid state memory, providing maximum data security even if the battery becomes discharged. The device can be started and stopped directly from your computer and its small size allows it to fit almost anywhere. The TSR101-EB makes data retrieval quick and easy. Simply plug it into an empty COM or USB port and our user-friendly software does the rest.



MadgeTech Data Recorder Software displays shock data in an easy to use graph.

The Windows[®]-based software package allows the user to effortlessly collect, display and analyze data. A variety of powerful tools allow you to examine, export, and print professional looking data with just a click of the mouse.

Click <u>MadgeTech Software</u> for more information or to download the software.

TSR101-EB SPECIFICATIONS*

Channels:	Shock (3	axes)			Calibration:	Digital calibration is available to the user through	
Accelerometer Type:	MEMS S	emiconduc	tor			software	
Acceleration Range (g):	±5	±50	±100	±250	Calibration Date:	Automatically recorded within device	
Calibrated Accuracy (g):	±0.2	±1	±2	±4	Battery Type:	6 D-cell alkaline batteries included;	
Acceleration Resolution (g):	0.01	0.05	0.1g	0.2		user replaceable	
Reading Rate Range:		ons from 0 ond, select			Battery Life:	30 days typical with alkaline batteries, immediate start, 1024Hz	
Trigger Specifics: User settable trigger levels on X, Y, and/ or Z axes, and specifies # of samples				Data Format:	Date and time stamped gravities (g and mg)		
	after trig	5			Time Accuracy:	±1 minute/month (at 20°C to 30°C)	
Pre-Trigger Specifics:	Records a pre-trigger of up to 50 readings prior to the trigger point				Computer Interface:	USB (interface cable required), 115,200 baud	
	0Hz to approx. 400Hz (50, 100g) (0-512Hz (5g))				Software:	XP SP3/VIsta/Windows 7	
Real Time Recording:	May be used with PC to monitor and record instantaneous acceleration in real time (Only at 1 second rate, not possible during logging)				Operating Environment:	-20 to +54°C, 0 to 95%RH non-condensing	
Start Modes: Software programmable immediate start			liate start	Dimensions:	5.5" x 5.4" x 3.2" (140mm x 137mm x 80mm)		
	or delay start up to 180 days in advance				Weight:	5lbs (23kg)	
Password Protection:	An optional password may be programmed into the device to restrict access to configuration				Materials:	Anodized aluminum	
	options.	Data may the passw	be read o		Approvals:	CE	
SOFTWARE FEATUR	ES				NOT DISPOSE OF IN FIRE, REC	JSED BATTERY PROMPTLY. KEEP OUT OF REACH OF CHILDREN. DO CHARGE, PUT IN BACKWARDS, DISASSEMBLE, OR MIX WITH OTHER EXPLODE, FLAME, OR LEAK AND CAUSE PERSONAL INJURY.	

SOFTWARE FEATURES

BATTERY TYPES. MAY EXPLODE, FLAME, OR LEAK AND CAUSE PERSONAL INJURY.

Multiple Graphs:	Simultaneously analyze data from several units or deployments; easily switch to a single data series	Statistics:	Calculate averages, min, max, standard deviation
Graphical Cursor:	One click displays readings by time, value, parameter or sample number	Export Data:	Export data in a variety of common formats, or switch to Excel® with a single click
Data Table:	Instantly access tabular view for detailed dates, times, values, and annotations	Calibration:	Automatically calculate and store calibration parameters
Scaling Options:	Auto scale function fits data to the screen, or allows user to manually enter their own values	Communications:	Automatically sets up communications port, or lets user select configuration
Formatting Options:	Change colors, line styles, plotting options, show or hide channels quickly	Printing:	Automatically print graphical or tabular data

ORDERING INFORMATION

*SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE. SPECIFIC WARRANTY AND REMEDY LIMITATIONS APPLY. CALL 1-603-456-2011 OR GO TO WWW.MADGETECH.COM FOR DETAILS.

<u>Model</u>	Description	ASK ABOUT OU DATA RECOR		
TSR101-EB-5	± 5 g Tri-Axial Shock Recorder with Extended Battery Life	\$749.00	Temperature	Pulse/
TSR101-EB-50	±50g Tri-Axial Shock Recorder with Extended Battery Life	\$749.00	Humidity	Low L
TSR101-EB-100	±100g Tri-Axial Shock Recorder with Extended Battery Life	\$749.00	Pressure Low pH RF Tr	
TSR101-EB-250	±250g Tri-Axial Shock Recorder with Extended Battery Life	\$749.00	Level	Intrins Spect
IFC200	Software, manual and USB interface cable	\$119.00	Shock LCD Display	
MN1300	Replacement battery for TSR101-EB (6 Required)	\$5.00		
	Calibration certificates available. Call for pricing.			

For Quantity Discounts call 603-456-2011 or email sales@madgetech.com

Supplied in Australia by Instrument Choice Call our scientists on 1300 737 871 www.instrumentchoice.com.au

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JR OTHER RDERS

e/Event/State Level Current Level Voltage ransmitters nsically Safe tral Vibration



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