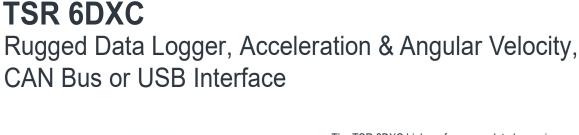
### APPLICATIONS

- Aerospace analysis
- Automotive safety
- Biomechanics
- Blast testing
- Helicopter & aircraft
- Impact testing
- Parachute deployment
- Ride & handling
- Sports & safety equipment
- Vibration testing
- Vehicle black box





The rugged TSR 6DXC data logger features mil-standard connectors and is ideal for unattended monitoring of acceleration in blast and multi-event impacts.

#### **Features**

- Compact size, easily mounts to test article or can be discretely embedded inside a test device
- Built-in triaxial accelerometer and triaxial angular rate sensors
- Data writes directly to 1 GB flash memory, up to 2,000 events
- High sampling rates and bandwidth
- Logs temperature, date and time for each event Synchronizes time sequence for event reporting
- USB-rechargeable Lithium battery operates up to 6 months or external power (6-36 VDC)
- CAN Bus or USB communications interface
- Modules can be daisy-chained for power, communication and trigger synchronization
- Simple, intuitive software for arming, downloading and viewing data. Simple data files can be viewed in Excel.

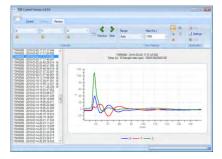
The TSR 6DXC high performance data logger is designed to collect shock and vibration data in harsh test environments. Compact and self-powered, the TSR 6DXC features built-in triaxial accelerometer and triaxial angular rate sensors. An advanced sleep mode "wakes" for an event trigger, collects data which is stored in 1 GB flash memory and then automatically re-arms and returns to ready-mode to capture the next event. Multiple TSR 6DXC modules can be daisy-chained, plus it offers communication via CAN Bus or USB interface.

Modules can be daisy-chained for synchronized communication status, trigger and more.



### Software

TSR Control software provides fast, easy-to-use tools for controlling the recorder and viewing the stored events. With a focus on speed and simplicity, TSR Control provides the tools to configure the recorder, view real-time sensor output and review your time-history data.





### PRODUCTS

Diversified Technical Systems designs and manufactures data acquisition systems and sensors for the experienced testing professional.

# **Specifications**

MODEL	TSR 6DXC	
Internal Accelerometer	± 6000 g full scale Piezo-Electric Triaxial	
Internal Angular Rate Sensor	±18000 deg/sec Triaxial	
Frequency Response	Accel: 0.3 Hz – 5 kHz ARS: 0-300 Hz Pressure: NA	
Sampling Rate	Accel: 75000 samples/sec/channel ARS: 5000 samples/sec/channel Pressure: NA 12-bit ADC	
Battery*	Lithium Rechargeable (900 mAh) Active/Record Mode ~24 hours typical Low Power/Sleep Mode ~6 months typical	
	*NOTE: Battery life will vary based on type, application, duty-cycle and sampling rate. Contact a DTS sales engineer to determine the best product and estimated battery life for your specific application.	
	See TSR Battery Life article available on DTS Help Center.	

PHYSICAL		COMMUNICATION	S
Size: Weight:	83 x 83 x 32 mm (3.25 x 3.25 x 1.25") 420 g (15 oz.)	Communication:	USB or CAN Bus
Model:	TSR 6DXC	CONNECTORS	
ENVIRONMENTAL Operating Temp.:	-30 to 60°C (-22 to 140°F)	Mil-Std 38999:	Dual, chainable for power, CAN Bus, trigger and status
Humidity:	20 to 95%	TRIGGERING	
Shock: IP Rating:	10000 g survivable IP67	Software Trigger:	Programmable level trigger from acceleration
		POWER	
INPUT CHANNELS		Internal Battery:	USB-rechargeable lithium polymer
Acceleration:	3 channels, internal accelerometer	00574405	
Angular Rate:	3 channels, internal angular rate sensor	SOFTWARE	
Additional Features:	Logs temperature and time stamp per event	Product Name: Data Management:	TSR Control Date/Time/Temp recorded for each event
DATA CONVERSION		Post-Processing:	SAE Filters, View multiple channels/tests,
Resolution:	12-bit ADC	U	HIC Head Injury Criteria
Memory Capacity:	1 GB flash	Operating Systems:	Windows® 7/8/10 (32- and 64-bit)
Sleep:	Advanced motion detection for power savings	Communication:	USB or CAN Bus
Trigger:	When armed in low power mode, data collection starts <100 µsec after trigger		
Data Collection Mode			
Active: Loops in memory waiting for trigger		Additional DTC data lagger models are quallable with a variaty of	
Low power:	No pre-trigger data	Additional DTS data logger models are available with a variety of sensor options, shock ratings, sampling rates and more.	

### SERVICES

24/7 Worldwide Tech Support ISO 17025 (A2LA) Calibration Onsite Calibration & Training Application Consulting Software Integration OEM/Embedded Applications

### WORLDWIDE SUPPORT

HELP CENTER (24/7/365 Access) DTS Technical Centers Global Sales Partners

**HEADQUARTERS** 

Seal Beach, California USA

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