

LYNX BASIC



Vibration Control and Analysis System

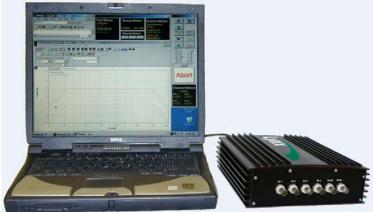
REVOLUTIONIZING

Testing with Modern Vibration Control

LYNX utilizes Spectral Dynamics' innovative *Computer-Aided Test Suite*[™] architecture. This architecture takes full advantage of both advanced hardware with distributed processing using powerful 128bit Floating Point DSP's and the PC's powerful Intel processor, and software, using the latest advancements in Microsoft Windows XP technology. Optimized for multi-tasking, and founded on industry connectivity and data interchange protocols, LYNX makes your entire test and validation process more timely and efficient.

Versatile Test Capabilities

The *Computer-Aided Test Suite*[™] vibration control applications were designed to meet a wide range of environmental test requirements. The LYNX BASIC Vibration Control System combines the simplicity of operation required for production screening with the power and versatility required for R&D prototype testing.



User Friendly

LYNX BASIC's graphical user interface provides test operators with friendly operation from setup to report preparation. You can customize the interface so that it's easy to use whether you are a new user or an expert. In addition to normal Windows security, LYNX offers optional security levels, where you can protect against unauthorized changes to the setup or test, with each user having their own security permissions. The *Computer-Aided Test Suite™* software provides incredible flexibility for display and analysis of data. Full documentation allows seamless report generation in the Windows XP environment.

Superior Control

LYNX BASIC is no ordinary controller when it comes to vibration testing. To meet your most stringent test requirements, LYNX BASIC incorporates patented "adaptive" digital vibration control methods, highest quality data acquisition, and signal generation hardware designed with the latest floating point DSP technology. Control is the finest feature of LYNX providing adaptive control in

- 4 input channels with ICP®
- Powerful multiple DSP architecture
- Comprehensive vibration test capabilities Random Sine

Classical Shock with SRS displays

- Autoranging inputs and output attenuators for over 90 dB useable Dynamic Range
- Extensive Safety, Automation, and Test Configuration features
- Flexible data storage with display overlays of current and stored test results
- Powerful hardware Processor for the fastest and most accurate Control possible
- Fully documented Post-Test summary with and without Microsoft Office

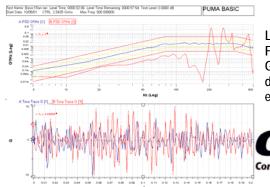
all applications. In sine control, SD has the unique "true Tracking Filter" in addition to adaptive control providing a powerful contrast to a very weak FFT bin based approach with less than 20dB of filtering. In shock, LYNX will update the complete transfer function creating the output in between shock pulses unlike the competition.

Simple Upgrade Paths

LYNX BASIC 2 is only the starting point. It provides all the testing you need today with a simple software upgrade path to the most powerful software of the CATS suite. While limited to four channels the powerful hardware allows an upgrade path available from LYNX BASIC 2 to 5k or 10k Hz or all the way up to LYNX Premiere. With just a software replacement key, your LYNX BASIC can run Foundation or the most advanced Premier programs. Now that's what we call **Value**, enhancing the investment in your control system.

Built By the Experts

Spectral Dynamics introduced the first digital vibration control system in 1969. Over the next eight generations of systems, we perfected and patented industry-leading vibration control technologies. Now LYNX BASIC revolutionizes the way you test – from setup to report delivery.



LYNX BASIC Flexible Displays-2 Graph display with dual Traces on each Graph



LYNX BASIC Vibration Control

Hardware Input Subsystems Dynamic range >92 dB Analog-to-digital converter 24-bit Amplitude accuracy Within ±0.20% of value or ±0.03% of full scale ±0.03% of full scale or ±0.2% of measured value, Amplitude linearity whichever is greater Voltage ranges Overload detection Voltage coupling AC or DC ICP power Maximum rated input signal ±35 Volts peak Sampling rate Multichannel sampling interval Frequency accuracy ±5 ppm Frequency range reduction Anti-aliasing filters Analog Туре Cutoff frequency Fixed at 225 kHz Alias attenuation >96dB Passband ripple Within ±0.10 dB Digital Cutoff frequency Variable Stopband attenuation Passband ripple Within ±0.15dB Channel-to-channel match Amplitude Better than ±0.25 dB (compensated) Phase (compensated) Crosstalk Offset removal Туре Accuracy (compensated) Input impedance Connector type BNC Connection type side return

Calibration

Calibration constants

Hardware Processor

Output Subsystem

Dynamic range Digital-to-analog converter Maximum output amplitude

Channel Definition

Application dependent; 27 mV to 10V full Scale, in 3dB steps for Random and Shock, 12 mV to 10V full scale, in 1 dB steps for Sine Full scale on all channels, analog and digital detection 4 mA (20V maximum into open circuit) 102,400 samples per second Simultaneous sampling on all channels-no interval

Digital decimation and filtering using on-board DSPs

Filter matches 64X oversampling A/D converter

>96 dB at 1.56 times cutoff frequency

Better than ±1.0 degree to 2 kHz > -90 dB below full scale

Digitally controlled offset rejection Better then ±0.5% of full scale, for each input range

1 Meg Ohm shunted by <120 pf Pseudo-differential, 10 Ohms to system ground, low

Internal digital calibration, NIST referenced; Digital calibration constants stored in nonvolatile RAM

Dedicated Floating Point DSP hardware for measurement and Control

Attenuator range 0 to -160dB Attenuator step resolution 0 to -90dB 0.05 dB -90 to -110dB 0.10 dB -110 to -135 dB 0.20 dB Digital Cutoff frequency Variable Stopband >96 dB at 1.58 times cutoff frequency attenuation Passband ripple Within ±0.07 dB Output offset removal Туре Digitally controlled rejection of internal and external offsets Accuracy Better than ±0.5% of full scale Output impedance 60ohms Signal available on separate BNC connector Unattenuated output Unattenuated output level 1Volt peak, generated after analog smoothing filter Output connector type BNC Pseudo-differential, 10 Ohms to system ground low Output type side return Output cable Designed to drive up to 50 feet of shielded 50 ohm coaxial cable Calibration Automatic Internal digital calibration, NIST referenced Calibration constants Digital calibration constants stored in nonvolatile RAM General 100 to 125 Volts or 200 to 240 Volts voltage 50 or 60 Hz Frequency Typical power usage 150 watts Temperature (operating) 50 deg F to 104 deg F (10 deg C to 40 deg C) Temperature (non--13 deg F to 140 deg F (-25 deg C to 60 deg C) operating)

16 mA

Programmable 48-bit

20% to 80% non-condensing

Personal Computer

Power

Humidity

Maximum output current

Voltage range attenuator

(optional) Туре Operating system CPU MHz Memory Hard disk Floppy disk CD ROM Color monitor Networking Ports Maximum thermal gradient Intel Pentium MS Windows XP 2 GHz and higher 512 MB RAM 40 GB 1.44 Mbytes 3.5 Inch diskette Variable speed drive 1280 x 1024 resolution required Ethernet, 100BaseT connector standard Parallel, Serial 15 deg F (8.3 deg C) per hour

>90 dB

Precision 16-bit

± 12 Volts peak

5														_
	8	Name	Serial #	Туре		Loop Chk	Sensitivity (mv/EU)	Weighting (dB)	RMS Abort (GRMS)	ICP	Coupling	dB Reference	Reference Chans	
	1	CH 1		Control	•	On	100.000	0.00	30.0000	Off	DC 🔻	1	NONE	-
	2	CH 2		Measure	•	Off	10.000	0.00	30.0000	On	AC 🔻	1	1, 3	-
	3	СН 3		Measure	•	Off	10.000	0.00	30.0000	On	AC 🔻	1	2, 4	-
	4	CH 4		Measure	•	Off	10.000	0.00	30.0000	On	AC 🔻	1	2, 3	-

+	File Name		
Save As	C:\Program Files\Spectral Dynamics\Puma Basic\RCTS\B	<u>o</u> k	
	Description		
Load		<u>C</u> ancel	
New		Halp	
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Technical Specifications

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LYNX BASIC Vibration Control

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RANDOM CONTROL	Control Methods	Safety Features	
Control method	Patented adaptive control algorithm with separate	Shaker limits	Pretest verification that spectrum dynamic limits are
Control method	controls loops dedicated to controlling the shape of the		within shaker operational limits (acceleration, velocity
			displacement and voltage)
	drive spectrum and overall RMS level optimizes both	Loop check max. drive	User-selectable, 0 to 5000 mV RMS
	control speed and stability	Alarm/Abort RMS	RMS acceleration limit in dB or Absolute units
Out-of-Band Noise Rejection	Digital Brick wall filter on each channel after the analog		
	Aliasing filter and the A/D converter	Alarm/Abort spectral lines	Number of lines, or percent of lines within user- specified range
Input/Output			specified range
Input channels	4 (four) Independent Channels	Channel RMS abort	Aborts test if any channel RMS threshold exceeded
	>140dB with auto-ranging	Control signal loss	Automatic detection with smooth drive shutdown
Input dynamic range	5 5	Manual abort	Graphical and keyboard abort buttons
Output Channels	1 (one)	External kill-switch	Rack or desktop mountable external abort circuit with
COLA Output	1 (one)	External Kill-Switch	programmed shutdown (option)
Output dynamic range	>90dB	Drive signal clipping	2.5 to 6 sigma
		Startup/shutdown rates	Independently selectable 1 to 50 dB/sec
Control Performance		Startup/shutuowirrates	independently selectable 1 to 50 ub/sec
Dynamic range	Up to 90 dB	Channel Satur	
Output	Pure Gaussian noise	Channel Setup	Control maggurament inactive
Equalization accuracy	Control to within ± 1 dB for a flat reference spectrum	Channel type	Control, measurement, inactive
	with 120 DOF 90% statistical confidence	Sensitivity	0.001 to 9,999 mV/g or mV/(m/s ²)
		Transducer Power	Constant Current source On or Off
Loop time	With 4 control channels, 4 new data frames per loop,	Coupling	AC or DC
	2000 Hz, 200 lines 120 DOF, less than 0.5 seconds	Channel loop check	Enabled, disabled
Re-equalization rate	For an instantaneous change of 6 dB in all control	Channel label	Up to 20 characters for each channel
·	spectrum lines, the spectrum RMS is re-equalized to	Transducer serial number	Up to 10 characters for each channel
	within ±1 dB within 8 control loops, for a flat reference	Control channel weighting	Individuality defined, 20 to 6 dB
	with 4 control channels, 120 DOF	RMS abort	Individually defined, 0 to 999 grms or (m/s ²)rms
		T Reference	Channels to use for Transmissibility reference
Reference Spectrum			
Definition	Easily defined by a combination of up to 500	On-Line Status Monitors	
	amplitude/frequency breakpoints, (PSD	Test status	Elapsed and remaining test time
	value/frequency value) and slopes (dB/octave values)	Level status	Schedule level number, elapsed and remaining level
Spectral alarm/abort limits	Independent positive and negative alarm and abort		time
	tolerances for each breakpoint	Control status	Test dB level, drive RMS level, Control Level GRMS
Frequency range (DC to)	50, 100, 200, 500,1000, 2000 or optionally 5 or 10k_Hz	Channel status	RMS levels for all active channels
Frequency resolution	100, 200, 400, and 800, options to 1600	Message log	Records all test operations, including operator
Units	q-in/s-in: q-m/s-mm; m/s ² -m/s-mm		commands, and reports on alarm or error conditions
on the	g		
		On-Line Controls	
		Start/Abort test	Smoothly initiates or terminates test
Control Parameters		Resume test	Restart test and complete remaining time
Number of control channels	1 to 4	Store Data Set	Store on Command
Multichannel control strategy	(Optional)_Average, maximum, minimum; user-defined	Drive update	Update of drive spectrum on or off
	weighting for each control channel	Level	Step up or step down
Mode of operation	Manual, automatic, automatic only	Pause	Lower drive level to -90 dB, hold until Resume
Test duration	User-defined, maximum 9999:59:59 (hhhh:mm:ss)	Test Mode	Manual or Automatic
Degrees of freedom	User-defined. Minimum 8, maximum 1000		
Output level control	Automatic, Manual	On-line Analysis	
	Automatic, Manual	Real-time displays	Spectra or time histories for all available channels may
Startup Parameters			be simultaneously displayed during the test
Initial test level	Licer coloctable: 90 to 0 dP	Spectra analyzed	PSD, Auto-spectrum, Error-spectrum, Transmissibility
	User-selectable; -80 to 0 dB	Averaging control	User-selectable; DOF exponential or linear averaging
Time at initial level	User-defined number of loops		user selectable, bor exponential or linear averaging
Level increment	1 to 20 dB	Display Control:	
Pre-stored drive startup	User-selectable (No/Yes/Yes with verify before start)	Number of Graphs	Selectable: 1, 2 or 4
		Display Parameters	Graph Color Properties, Plot Colors, Cursor type
Test Automation Features		Display Limits	User entered X, Y Min and Max or Autoscale
	Up to 500 test levels; each level with programmable	Axis Type	Independent selection of Lin or Log for each axis
Level scheduling	time at level, time between levels, abort/ignore action	Current and Stored Test	Provides overlay of stored vs. current data
	and a rever, and between revers, aborrightic action		
Security	Selectable levels of Security per User (Optional)	Data Storage	
	Provides User Name and Password plus access to 16	Setup options	Automatic storage every 1 to 10,000 seconds, save on
	separate functions		level change, save on alarm, manual save
RCI	16 line Remote Communications Interface (Optional)	Playback	Automatic play of entire test data file, with adjustable
	Provides High and Low action, lines for Off, Abort,		display update delay; manual selection
	Start, Stop, Full Level and Resume; Segment Name	Run message log	Text file records all system status messages displayed
	and message lines included	J	during test run
	ana message imes meladea		v



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Technical Specifications

I VNX BASIC Vibration Control

	LYNX BASIC Vibrat	ion Control	Technical Specifica			
	SINE CONTROL	Control Methods	Safety Features			
	Control loop	True analog-quality sine sweep with a double precision integrated phase algorithm for low distortion	Shaker limits	Pretest verification that spectrum dynamic limits are within shaker operational limits (acceleration, velocity,		
	Input/Output	5 1 5		displacement and voltage)		
	Input Channels	4 (Four) Independent Channels	Loop check max. drive	User-selectable, 0 to 5,000 mV RMS		
	Input Dynamic Range	> 120 dB with Auto-Ranging	Control signal loss	Continuous automatic detection		
	Output Channels	1 (One) Controlled Output	Manual abort	Graphical and keyboard abort buttons		
	Unattenuated Output	1 (One) COLA: fixed amplitude Sine at test frequency	Maximum drive signal	0.0001 to 12 Vpeak		
	Output Dynamic Range	>90 dB	Startup/shutdown rates	Independently selectable, 1 to 99 dB/sec		
I	Control Performance					
	Dynamic range	Greater than 80 dB with 0.05 dB level step control over the full range				
	Output signal	Analog-quality digital sine generation, using a double precision integrated phase algorithm for low distortion				
	Level accuracy	Control to within ± 1 dB at a sweep rate of1 oct/min				
		through a 600 Hz resonance of a linear system with a	Channel Setup			
		Q of 70 with an internal 20% proportional tracking filter	Channel type	Control, measurement, reference, inactive		
		Sweep frequency resolution±0.5% of the drive	Sensitivity	0.001 to 999,999 mV/g or mV/(m/s ²)		
		frequency	Channel loop check	Enabled, disabled		
	Leon time		Channel label	Up to 20 characters for each channel		
	Loop time	Less than 5 msec for single channel control	Transducer serial number	Up to 10 characters for each channel		
1	Compression rate	Up to 3,500 dB/sec with unconditionally stable	Transducer Power	Constant Current Source: On or Off		
		feedback control loop				
Í	Harmonic distortion	< -75 dB at full output	Input Coupling	AC, DC, Ground		
	Reference Profile		On-Line Analysis			
	Definition	Up to 500 frequency segments	Display functions	Control, drive, measurement channel 1 to 4,		
	Segment types	Constant displacement, velocity, acceleration, and		Frequency Response Function (Magnitude)		
	Segment types		Cursors	X and Y value readout,		
	Crease fra succession	straight line acceleration (linear or logarithmic)	Data Comparison	Display/Overlay current test and stored data file		
	Crossover frequencies	Automatically calculated to avoid segment boundary	Scaling of display	Log/Linear, auto-scaled/fixed		
		discontinuities	Scalling of display	Lug/Linear, auto-scaleu/lixeu		
1	Alarm and abort limits	Independent positive and negative alarm and abort				
		margins				
	Sweep range	User-defined sweep range from 1 to 5000Hz	On-Line Status Monitors			
	Sweep resolution	User-defined resolution of 450 to 800 points per sweep	Test Status	Elapsed and Remaining test time		
	Spectrum dynamic limits	Acceleration range, maximum or minimum	Level Status	Schedule level number elapsed and remaining level		
	1 3	acceleration, maximum velocity and maximum		time		
		displacement	Control Status	Test dB Level, Drive RMS Level, Control Level GRMS		
		displacement	Channel Status	RMS levels for all active channels		
1			Message Log	Records all Test operations including Operator		
			5 5	commands, and reports on Alarm or Error conditions		
1						
I			Data Storage			
	Control Parameters		Setup options	Sweep Increment, first sweep, last sweep, timed		
	Mode of Operation	Manual, Automatic	Playback	Scan through the entire test data file, with adjustable		
		Up, Down, Dwell (Hold)	.,	delay		
	Sweep			uoluj		
	Manual Control	Amplitude, Compression Rate	Documentation			
	Master Control	Abort, Start, Stop	Test summary	Fully documented post-test summary, easily printed or		
	Test duration	Maximum 99,999 sweeps or 9999:59:59	rest summary			
		(hhhh:mm:ss); unlimited test		incorporated into any document using standard word		
	Measurement processing	RMS		processing software		
			Run message log	Text file records all system status messages displayed		
			Cofeta Frankrige	during test run		
	Number of control channels	1 to 4	Safety Features			
	Multi-channel control	RMS, arithmetic average, min, max	Shaker limits	Pretest verification that spectrum dynamic limits are		
	strategy	ŭ		within shaker operational limits (acceleration, velocity,		
	35			displacement and voltage)		
	Compression	5% to 100%	Loop check max. drive	User-selectable, 0 to 5,000 mV RMS		
	Units	m/s ² - m/s - mm; q – in/sec - in; q – m/s – mm	Control signal loss	Continuous automatic detection		
	UTIILS	$11/3^2 - 11/3 - 11111, y = 11/360 - 111, y = 11/3 = 11111$	Manual abort	Graphical and keyboard abort buttons		
J	Ctarture /Chut-Lawren Data		Maximum drive signal	0.0001 to 12 V_peak		
1	Startup/Shutdown Rate	1 to 99 dB/sec	Startup/shutdown rates	Independently selectable, 1 to 99 dB/sec		
	Sweep Parameters					
		Linear logarithmic	On-Line Controls			
	Sweep mode	Linear, logarithmic	Start/Abort Test	Smoothly initiates or terminates test		
	Sweep duration	User-defined, maximum 999:59:59 (hhh:mm:ss)	Resume Test			
	Number of sweeps	0.01 to 100,000		Restart test and complete remaining time		
	Sweep rate-linear	0.00003 to 300 Hz/sec (0.0018 to 18,000Hz/min)	Test Mode	Manual or Automatic		
	Sweep rate-logarithmic	0.1 to 800 Oct/min	Drive update	Update of Drive Spectrum On or Off		
	Initial sweep direction	Up, down	Level	Step Up or Step Down		
- 1	·		Pause	Lower Drive level to -90dB, hold until Resume		

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TEL. 408.678.3500 FAX. 408.678.3580

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LYNX BASIC Vibration Control

YNX BASIC Vibrat	ion Control		Technical Specifications
SHOCK CONTROL	Control Methods	Safety Features	
Control loop	Patented adaptive control algorithm with transfer	Shaker limits	Pretest verification that spectrum dynamic limits are
Control toop	function updating and coherence smoothing to		within shaker operational limits(acceleration, velocity,
	accurately and quickly compensate for nonlinearities or		displacement and voltage)
	time varying changes in the dynamic load	Loop check max. drive	User-selectable, 1 to 5,000 mV rms
		Loop check max. noise	User-selectable, 1 to 1,000 mV rms
Input/Output		Max average error alarm	0.01 to 100 %
Input Channels	4 (four) independent channels	Max average error abort Max peak error alarm	0.01 to 100 % 0.01 to 100 %
Output Channels	1 (one)	Max peak error abort	0.01 to 100 %
Control Performance		Control signal loss	Continuous automatic detection
Dynamic range	Up to 90 dB	Maximum drive signal	0.01 to 12V peak
D Jhanno rango			
Pulse Definition		Test Automation	
Types	Half-Sine, Trapezoidal; Terminal Peak Sawtooth	Markin I	Here estadely number of full such as and delay
	waveform easily created from Trapezoidal definition	Multiple pulse	User-selectable number of full level pulses and delay between pulses
Pulse duration	0.1 to 32000 ms		between pulses
Buffer duration	10 ms to 64 sec	Channel Setup	
Pulse amplitude	0.01 to 500 g	Channel type	Control, auxiliary, inactive
Rise time (trapezoidal)	0.1 to 10,000 ms	Sensitivity	0.001 to 999,999 mV/g
Peak time (trapezoidal)	0.1 to 10,000 ms	Channel loop check	Enabled, disabled
Fall time (trapezoidal)	0.1 to 10,000 ms	Channel label	Up to 20 characters for each channel
Units	g-in/s-in; g-m/s-mm, m/s ² -m/s-mm	Transducer serial number	Up to 10 characters for each channel
Frequency range	from 50 Hz to 10 kHz; dependent on the pulse duration	Transducer Power	Constant current source On or Off
	and type of compensation,		
Frame size	Automatic selection of 512 - 8192 samples, in powers	On-Line Analysis	
	of 2 steps	Real-time analysis	Pulses and spectra for 1 to 4 channels simultaneously
Pulse dynamic limits	Maximum input voltage, max/min acceleration,		displayed
	max/min velocity, max/min displacement, calculated	Time functions	Control, drive, and auxiliary waveforms
	and displayed	Display units	Acceleration, Velocity, and Displacement
		SRS displays	Maxi-max
Pulse Compensation		SRS Resolution	1/1, 1/3, 1/6 Octave
Туре	Pre- and post-pulse, pre-pulse only, post- pulse only	SRS damping	0.1 to 99 %, user selectable
Displacement optimization	(Pre- and post-pulse) Single sided, double sided	SRS definition	Absolute Acceleration, Relative Displacement
Compensation method	(Double sided) Displacement, symmetrical	Cursors Scaling of display	X and Y value readout
	acceleration, non-symmetrical acceleration	Scaling of display Current and Stored Test	Log/linear, auto-scaled/fixed, full control
Pre-pulse amplitude	5 to 100%	Current and Stored Test	Provides overlay of Stored vs. current data
Post-pulse amplitude	5 to 100%	Data Storage	
Symmetrical Compensation	5 to 100%	Data storage setup	Every pulse, last pulse, off
Dicplay Toloropood		Playback	Scan through the entire test data file, with adjustable
Display Tolerances	None, MIL-STD-810, user-specified	1 laysaon	delay
Type Specified segments	+ pre-pulse, - pre-pulse, + main pulse, -main pulse, +		
Specified segments	post-pulse, - post-pulse	Test summary	Fully documented post-test summary, easily printed or
Specified tolerance	1 to 99%; independent for each segment	,	incorporated into any document using standard word
			processing software
Control Parameters		Run message log	Text file records all system status messages displayed
Mode of operation	Manual-only		during test run
Number of control channels	Any one channel selectable as control		
Repetitive pulses	1 to 1,000,000		
Delay between pulses	0 to 8,000 ms		
Control Strategy			
Drive update	Off, on (equalization function updated after every		
	pulse)		
Output polarity	+/-		
Weighting for averaging Feedback gain	User-selectable: 0.05 to 1 User-selectable: 0.05 to 1		
Equalization method	Transfer function		
Equalization level	0 to -80 dB		
Equalization for of			
Input for equalization	Pulse, random, pseudo random		
Waveform trend removal	Disable, enable (removes DC offset before integrating from Acceleration to Velocity or Displacement).		
Start-up Parameters			
Initial test level	Equalization level to 0 dB		
Level increment	1 to 20 dB		
Equalization delay	0.0 to 8,000 ms		
-			
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TEL. 408.678.3500 FAX. 408.678.3580

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