

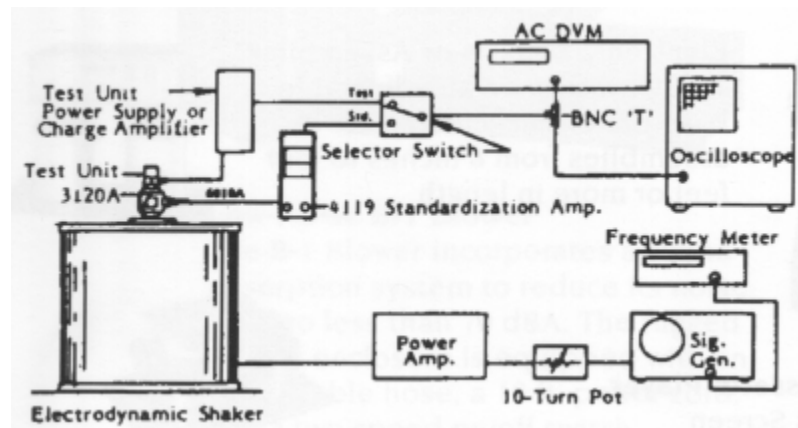


## Calibration Systems / With Back-To-Back Calibration Traceable to NIST

VTS Calibrators from Dynamic Solutions provide an NIST traceable, back-to-back comparison calibration of accelerometers and vibration transducers. Five force ratings are available.

The calibrator uses a dual leaf spring system to reduce acceleration waveform distortion to 5% or less in the frequency range from 5 Hz-50 Hz at 1/2 inch peak-peak displacement.

The nominal distortion from 100 Hz to 10 KHz is about 1% with three narrow peaks of about 3%. Lateral acceleration is below 10% up to about 4 KHz. Frequency range is 10 Hz to 5 KHz. Modifications to extend the frequency range up to 10 KHz are available (maximum force range is decreased to 80 lbf).



Calibration System Specification		VTS 40C	VTS 65C	VTS 100C VTS 80C*
Rated Force		40lbf	65 lbf	100lbf
Amplifier Cooling Fan		Included	Included	Included
Vibrator Cooling Blower		Not Required	Required	Included
Dynamic Stroke, peak to peak		0.75"	0.75"	0.75"
Stroke Limit, between stops		1.0"	1.0"	1.0"
Rated Velocity		35 in/sec.	70 in/sec.	100 in/sec.

Maximum acceleration, w/cal. std.		40g 32g* w/al armature	65g 52g* w/al armature	100g 80g* w/al armature
Armature Weight, w/cal. std.		1.0 lbs	1.0 lbs	1.0 lbs
Suspension Stiffness		50 lbs/in.	50 lbs/in.	50 lbs/in.
First Major Resonance, w/cal. std.		4200 Hz	4200 Hz	4200 Hz
Useful Frequency Range,	w/cal. std.	10-5000 Hz	10-5000 Hz	10-5000 Hz
	w/cal. std. & aluminum armature*	10 Hz-10 KHz*	10 Hz-10 KHz*	10 Hz-10 KHz*
System Power Required 100-240 V single phase 50/60 Hz		3a/120V 1.5a/240V	10a/120V 5a/240V	20a/120V 10a/240V

Specifications subject to change without notice.

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