

MODEL K9525C

## PNEUSHOCK™ CALIBRATION WORKSTATION

- Provides calibration and linearity check from 20 g – 10 000 g
- Uses state-of-the-art pneumatically actuated exciter (requires 90 – 150 psi) providing controlled and consistent impacts
- Includes variety of impact anvils and projectiles to tailor the impulse shape for frequency content and shock level
- Compatible with standard back-to-back shock reference accelerometers
- Provides graphical indication of sensor amplitude linearity
- Electronic control unit provides user control of projectile drive pressure and pulse width
- Digital pressure indication aids in control and repeatability

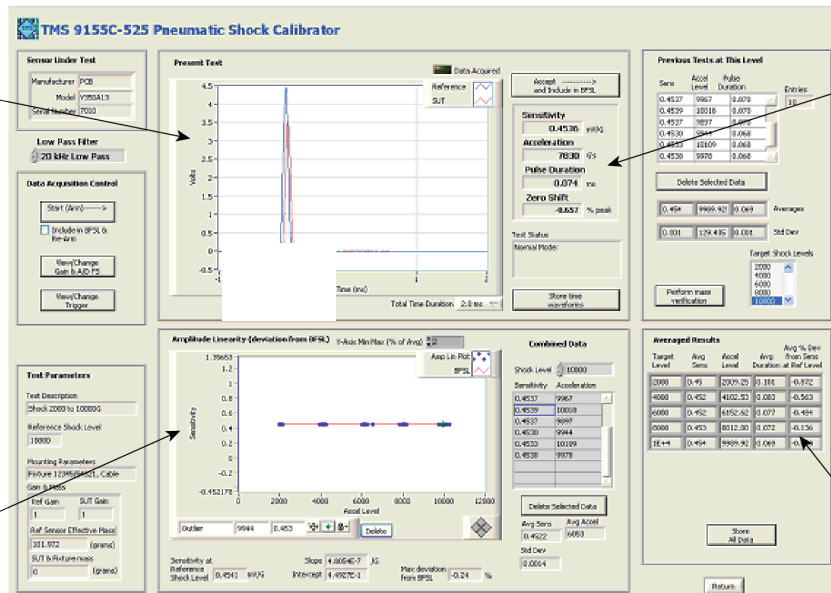
## SHOCK CALIBRATION KIT

The Shock Calibration Workstation Model K9525C allows the user to measure the sensor sensitivity at high acceleration levels up to 10 000 g in accordance with ISO 16063-22. This system is fully turnkey, includes a PC and data acquisition card, stores shock calibration results using Microsoft Access®, and has an easy-to-use software interface. PneuShock™, a state-of-the-art shock exciter, makes use of a pneumatically operated projectile to strike an anvil and excite the sensor. By controlling both the air pressure and the duration of which the pressure is applied, the user gains greater control and consistency of the impacts.

The PneuShock™ Calibration Workstation Model K9525C features an ICP® reference accelerometer, PCB Model 301A12, for calibrations according to ISO 16063-22. Printed certificates fulfill the requirements set forth by ISO 17025 for calibration certificates, and are fully customizable using the Microsoft Excel® environment.

The K9525C Shock Calibration system provides verification and linearity check from 20 g – 10 000 g allowing accurate calibration of shock accelerometers at amplitude levels used in actual testing. The K9525C can easily be upgraded to a full Model 9155D Accelerometer Calibration Workstation.

Displayed time data allows technician to view waveform and check for anomalies in the shock pulse



Software automatically computes values such as sensitivity, acceleration, pulse duration and zero shift

Linearity plot provides a good overview of test results during the test

Results table provides a quick look at the average results for all test levels

SPECIFICATIONS		
Performance		
Acceleration Range	20 g – 10 000 g	196 – 98 000 m/s <sup>2</sup>
Reference	PCB Model 301A12	
Type	ICP® Accelerometer	
Sensitivity	0.5 mV/g	
Uncertainty	2.5% typical	
Sensor Mounting	¼ – 28 UNF Thread Size	
Air Supply Pressure	90 – 150 psi [6.2 – 10 bar]	
ISO 8573.1 Quality Class	4	
Air Filter Requirements		
Dirt (Particle Size)	15 micron	
Water Pressure Dewpoint (100 psi gauge) [128 ppm vol]	37 °F	3 °C
Oil (including vapor)	5 mg/m <sup>3</sup>	

Other Shock Calibration Configurations	
9155D-525	Option for Accelerometer Calibration Workstation Model 9155D. PneuShock™ calibration option. Measures from 20 g – 10 000 g.
9525C	PneuShock™ pneumatically actuated projectile for shock excitation, 20 g – 10 000 g. Includes pneumatic actuator, electronic control unit and variety of impact anvils.
Other Calibration Systems	
9155D	Turnkey Accelerometer Calibration Workstation. Calibrates accelerometers per ISO 16063-21 from 0.1 Hz – 20 kHz.
K394B30	Calibration Exciter System, includes 396C10 air bearing shaker, internally mounted reference accelerometer with signal conditioner, power amplifier, DC current amplifier and air regulator. Requires 50 psi compressed air supply.
K394B31	Calibration exciter system, includes 20 kHz air-bearing shaker, ICP reference standard with signal conditioner and SmartAmp™ (AC amplifier, DC supply and air regulator). Requires 50 psi air supply. A2LA accredited laser primary cal data.
9350C	Precision Acoustic Calibration Workstation, turnkey automated cal system, performs traceable calibrations on mics, preamps and sound sources from 20 – 100 000 Hz. Includes acoustic test chamber for convenient mounting and reduction of background noise.



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