

MODEL K9907C

DYNAMIC STEP PRESSURE CALIBRATION WORKSTATION MODEL K9907C



The Model K9907C Pressure Calibration Workstation performs pressure calibrations on a wide range of dynamic pressure sensors. The Model K9907C is a turn-key system that includes the Aronson pressure step actuator, data acquisition hardware, Windows PC, and software to automate test setup, data acquisition, data archiving, and report generation. The K9907C provides step pressure pulses up to 1000 psi (6.9 MPa) to the sensor under test. The K9907C calculates sensitivity, linearity, and discharge time constant.

BENEFITS:

- Assures accurate, traceable calibrations
- Turnkey system includes all necessary components
- Windows PC supplies familiar, intuitive user interface
- Setup tests, acquire data, save results, and print reports quickly with precision and automation
- Define pass/fail criteria for each test and automatically recall them from the internal database
- Prints customizable ISO compliant certificates
- Automates calibration procedures
- Automatically checks excitation levels against acceptance criteria

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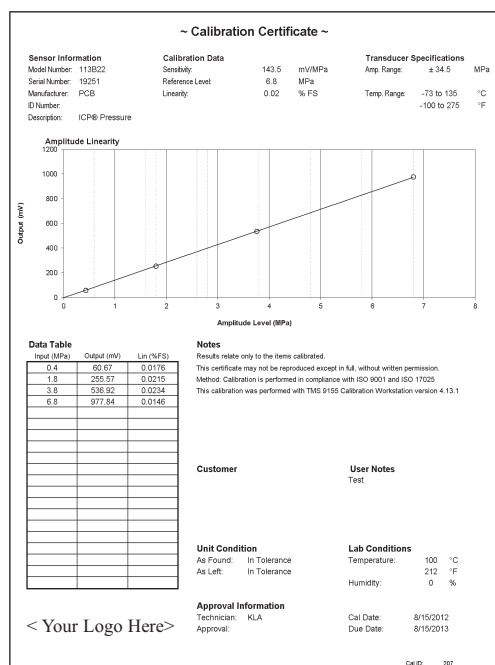
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The model K9907C is based on two product lines with a rich heritage of calibration experience. The pressure actuator and measurement equipment have been in use for decades at PCB Piezotronics, while the data acquisition and automation software is based on the The Modal Shop's 9155 Series of vibration sensor calibration workstations. The K9907C merges these two product lines to form a standalone pressure calibration system with mature measurement capability. In addition, the K9907C01 is offered as a retrofit package to existing customer owned PCB 907 Series calibration systems. The 9155D-907 adds pressure calibration capability to existing 9155D Accelerometer Calibration Workstations.

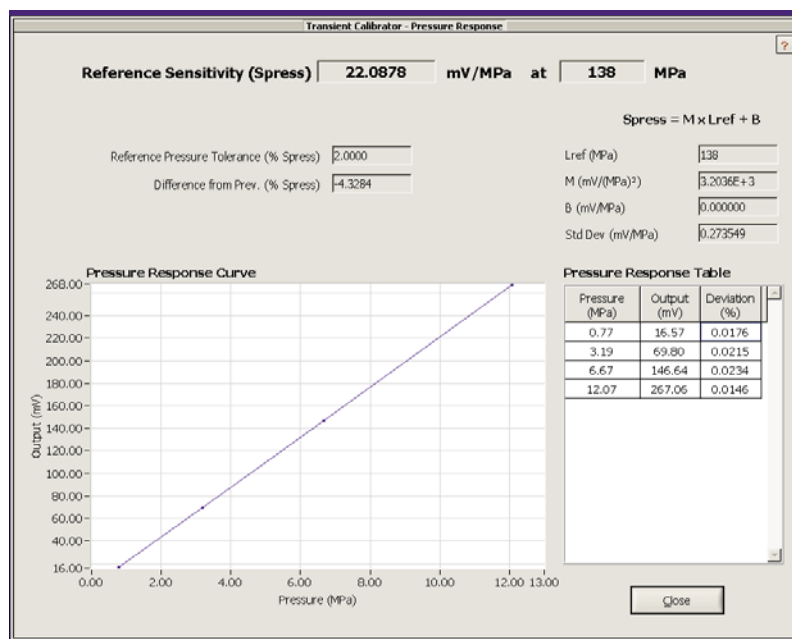
K9907C SPECIFICATIONS

Pressure Step Amplitude	psi (MPa)	0 to 1000 ¹ (6.9)
Step Rise Time	μs	≤5
Maximum Reservoir Pressure	psi (MPa)	≤2000 (13.8)
Working Medium		Non corrosive gas (i.e. helium)
Maximum Sensor Diameter	inch (mm)	1 (25.4)
Locking Mechanism		Keeps poppet valve open or closed
Trigger Signal Generator		Impacts sensor to trigger recording device
Material		Stainless steel and aluminum
Gas Pressure Controls		(3) each type 316L manual valves
Gas Access Ports		2 Swagelok®-type AN connectors; 1 for gas pressure & vacuum sources; 1 for external static reference gages
Size Diameter x Height (actuator only)	inch (mm)	12 x 21 (305 x 533)
Weight (actuator only)	lb	75

¹ negative pressure ≤ 14 psi (96 MPa)



K9907C automatically generates customizable calibration certificates for printing and archiving



K9907C calibrates at pre-determined levels and calculates linearity over the testing range

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