

Model Number  
K9905D

# ULTRA HIGH-PRESSURE CALIBRATION SYSTEM

Revision: B  
ECN#:

## GENERAL

Excitation Range	10,000 to 80,000 psi [70 to 550 MPa]
Calibration Technique	Quasi-static Cartridge Case Calibration per SAAMI Z299.1, Dynamic Step Pulse (Oil Calibration)
Measurements Supported	Sensitivity, Amplitude Linearity
Pressure Units Supported	psi, Pa, kPa, Mpa
Sensor Types Supported	Conformal Diaphragm Dynamic Pressure, Traditional Dynamic Pressure
Operation Types Supported	IEPE, Charge, Voltage
Operation Types Supported (Requires Optional Hardware)	Piezoresistive (Bridge), Capacitive, Differential Charge
Included PC	Windows 10
Test Parameters	Managed by system software
Test Pass/Fail Criteria	Managed by system software
Data Acceptance	Manual or automatic by system software
Data Management	Via User Interface or ODBC SQL
Report Generation	Automatic with MS Excel

## DATA ACQUISITION SYSTEM

Resolution	24 Bits
ADC Type	Delta-Sigma

## INCLUDED SUT SIGNAL CONDITIONER – ICP®/CHARGE

Manufacturer	PCB
Model	443B02
Input Type	ICP/Charge
Input Connector	BNC Jack
Output Type	Voltage <sup>[1]</sup>
Output Connector	BNC Jack
Variable Gain Increment	0.1 to 1000
Output Range	± 10 Volts
Control Interface	Front Panel, RS-232

## MISCELLANEOUS

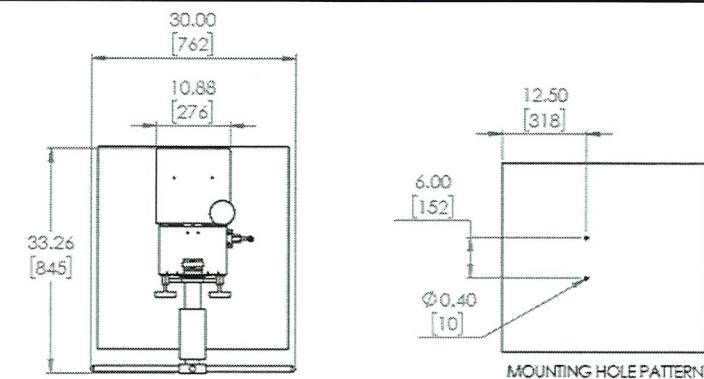
The K9905D integrates software and hardware and is statistically verified before shipment and after arriving at final destination.

K9905D+AUTO is also available, adding servo drive for pump and valves, and HMI Touchscreen.

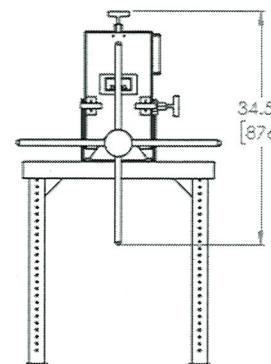
All specifications are at room temperature unless otherwise specified.

ICP® is a registered trademark of PCB Piezotronics, Inc.

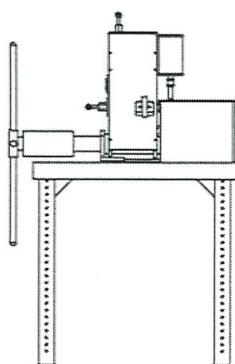
In the interest of constant product improvement, specifications may change without notice.



MOUNTING HOLE PATTERN



NOTE: TABLE NOT INCLUDED



## MAJOR COMPONENTS

9905D Ultra High Dynamic Pressure Calibrator, Windows PC, ICP/Charge Signal Conditioning, Data Acquisition Hardware, Software, and Verification Sensor

NOTE:

[1] Output Impedance <1 Ohm

Project Engineer:

MLM

Product Manager:

CGK

SAM Team Leader:

DEG

Spec Number:

PS-0082

Date: 11/2/2026

Date: 11/2/2026

Date: 1/7/26

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