

Calibration made easy

Fully Automated Portable Calibration System For Vacuum Gauges

VMS²
Standard Accuracy

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VACUUM
metrology systems



Accuracy and Precision in a small package

- Up to 3 NIST traceable transfer Standards with basic accuracy of $\pm 0.12\%$ of the reading
- Fully Automatic pressure control from 1.3×10^{-2} to $1.3 \times 10^{+5}$ Pa (from 1×10^{-4} to $1 \times 10^{+3}$ Torr)
- Control Resolution up to 0.1% of the Set Point
- User or Automatic assignment of calibration points
- RS232, Analog or Ethernet/Modbus inputs for UUT data collection
- Unlimited Calibration recipes and UUT data
- Secure Log of every operational step and data for clear audit trail
- Secure Database and Calibration Report creator
- Fully compliant with ISO 3567: Vacuum Gauges – Calibration by direct comparison with a reference gauge
- Simultaneous calibration of 3 gauges
- Fast and Repeatable calibrations
- Intuitive User Interface
- Cleanroom compatible, Easy to wheel around
- Rugged, Portable, Small Footprint, 2'(61cm)x2'(61 cm)
- Built in Calibration & Assets Management Software

**made
in USA**

Calibration made easy

TRANSFER STANDARDS

3 NIST traceable transfer standards with basic accuracy of $\pm 0.12\%$ of the reading

NUMBER OF TEST PORTS

3

BASE PRESSURE

Less than 7×10^{-5} Pa (5×10^{-7} Torr)

PRESSURE CONTROL RANGE

1.3×10^{-2} to $1.3 \times 10^{+5}$ Pa (1×10^{-4} to $1 \times 10^{+3}$ Torr)

PRESSURE CONTROL RESOLUTION

Up to 0.1% of set point

PROCESS GAS

Nitrogen or Dry Air

DRY PUMPING SYSTEM

Scroll + Turbomolecular pumps

FULLY ENCLOSED CABINET

Eliminates temperature variations and removes the uncertainty contributions caused by the temperature drift.

CLEANROOM COMPATIBILITY

Fully Compatible

ISO COMPATIBILITY

Fully compliant with ISO 3567: Vacuum Gauges – Calibration by direct comparison with a reference gauge

3 OPERATING MODES AND SERVICE MODE

Automatic mode

- Automatic selection of set points based on the entered number of set points per decade
- Automatic processing from lowest to highest pressure set point

Semi-Automatic mode

- Manual entry of set points prior to the test
- Automatic processing from lowest to highest pressure set point

Manual mode

- Manual set point entry (one at a time) with automatic pressure and process control
- Each consecutive set point can be set higher or lower than the previous one

Service Mode

- Manual control of all valves and controllers
- Beneficial for step by step system calibration and troubleshooting

UNITS SELECTION

Torr, Pascal, mBar

UUT DATA ACQUISITION

RS232, Analog or Ethernet/Modbus

DATA AVERAGING

10 to 99 points

THERMAL TRANSPIRATION

ON/OFF for standards and UUTs

TEST PARAMETERS RECIPES

Unlimited

DATA & SYSTEM SECURITY

Secure process recipes database

Secure, searchable Calibration database

Log of each operational step for clear audit trail

User Configurable access Level

CALIBRATION MANAGEMENT SOFTWARE

- Built in Calibration and Assets Management Software to ensure compliance with ISO 900X, ISO/IEC 17025, ANSI Z540 and other quality standards
- Create and Print Calibration Certificates
- View and Track Calibration history
- Create and Save unlimited Calibration and UUT recipes

