



## SAMS ADVANCED CLIMATIC TECHNOLOGIES PRIVATE LIMITED

Plot No. 8 & 9B/29, MIRRA Industrial Estate, Phase -1,  
IDA Patancheru, Bandlaguda, Hyderabad - 502 319, India.

Cell: 8686970885/9281024731; Ph:+918455297383/84

email: sunitha@samsact.com/lab@samsact.com; Website: www.samsact.com

### **Vibration, Shock, Temperature, Humidity and Pressure/Vacuum Gauges Calibration Services under NABL Accreditation**

#### **Mechanical Calibration at Laboratory:**

##### **❖ High Frequency Accelerometers Calibration:**

- ✓ Any Make, Any Type
- ✓ Frequency response from 5Hz to 15kHz
- ✓ Amplitude linearity response up to 40g
- ✓ Uni and Tri-axial accelerometers along with associated signal conditioner

**Unique Facility** Shock Calibration  
upto 5000g for Accelerometers,  
Shock/Bump testing machines



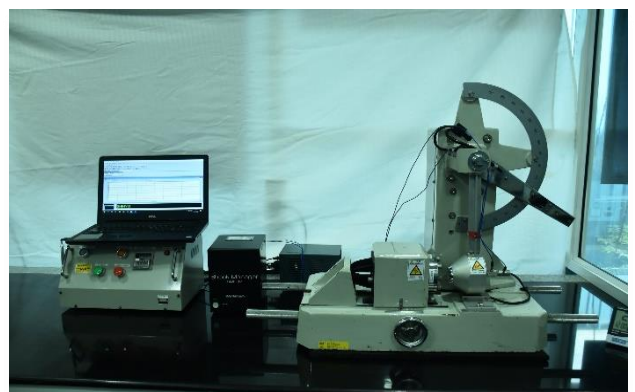
- ✓ Piezo-electric IEPE/ICP, charge, capacitive, DC-response, Piezo-resistive type
- ✓ Better Measurement Uncertainties ( $\pm 2.15\%$ )
- ✓ Accurate calibration report with 19 traceable points
- ✓ Method complies with ISO 16063-21:2003
- ✓ Calibration Certificate complies to ISO 17025

##### **❖ Other Instruments calibrated at SAMSACT:**

- ✓ Hand Held Shaker at single frequency and single amplitude
- ✓ Vibration Meter for Acceleration and Velocity
- ✓ Vibration Controllers Frequency from 5Hz to 3000Hz & Amplitude upto 40g

##### **❖ High Precision Shock Accelerometers Calibration:**

- ✓ Fully automatic operation
- ✓ Wide acceleration range upto 5000g
- ✓ Pulse duration range : 0.2ms to 11ms
- ✓ Shock waveform : 1/2 sine wave
- ✓ Method complies with ISO 16063-Part 22 : 2005





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### Mechanical Calibration at Onsite:



#### ❖ **Vibration Shaker System**

- ✓ Vertical and Horizontal directions in closed loop (including power amplifier and controller)
- ✓ frequency from 5Hz to 3kHz and Amplitude upto 40g
- ✓ By Comparison method

#### ❖ **Vibration Controller**

- ✓ Single and multi-channel's
- ✓ frequency from 5Hz to 3kHz and Amplitude upto 40g
- ✓ By Comparison method

#### ❖ **Shock/BUMP testing Machines**

- ✓ Amplitude upto 5000g and Pulse width 0.2ms to 11ms
- ✓ By Comparison method

### Mechanical Digital/Analogue Pressure and Vacuum Gauges calibration at Inhouse & Onsite:

By using Pneumatic Hand pump as per DKD-R6-1 by comparison method.

- ✓ Pressure: 0 bar to 30 bar
- ✓ Vacuum: -0.85 bar to 0 bar
- ✓ Better Measurement Uncertainties:
  - Pressure - 0.041 bar
  - Vacuum - 0.006 bar





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### Thermal – Inhouse and Onsite:

**All types of environmental test chambers Calibration (like temperature & humidity, salt spray and etc):**

#### ❖ **Temperature:**

- ✓ Multi position calibration using minimum 9 sensors by spatial mapping method
- ✓ Temperature Range -75 °C to 300 °C
- ✓ Better Measurement Uncertainties ( $\pm 0.8$  °C)
- ✓ Method complies with IEC 60068-3-11:2007

#### ❖ **Humidity:**

- ✓ Using precision Digital Hygropalm (Single Position) by Comparison Method
- ✓ Humidity Range 10%rh to 95%rh @20°C to 60°C

