



Calibration

Validation

Documentation



OMEGA INSTRUMENTATION AND CONTROLS

## Introduction

**S. P. Sapavadiya**, founder of **Omega Instrumentation and controls** having 30 years experience in the field of Process Control Instrument, Electronics Circuit Design, Electronics Product Development, Calibration and Validation. He has more than 14 years of work experience of PLC, SCADA, DCS, BMS, Computerised system, ERP, SAP and Laboratories instruments software validation as per GAMP5, 21 CFR Part 11 and EU GMP Annexure 11 requirements.

Omega has expertise and knowledge in the field of Calibration of process control, Electrical Measuring Instruments, and having very good Calibration Laboratory. Since OMEGA is established to cater the needs of calibration with sophisticated master instruments traceable to National Standards & Supported by a group of dedicated, technically qualified, trained engineers & technicians.

The master equipments are highly accurate and ensure low uncertainty of measurement. The calibration is carried out confidently as per the work instruction and the results are maintained confidentially.

### **Master equipments facility available at our laboratory**

- Precision 6 ½ Digit Multi Meter Fluke
- Precision Test Gauge
- Pressure comparator
- Temperature Bath
- High Voltage Testers
- Master Timer
- Precision 5 ½ Digit Multi Meter Agilent
- Universal Calibrators
- Test Vacuum Gauge and Vacuum Calibrator
- Digital Temperature Indicator with RTD sensor
- Oscilloscope
- Decade Resistance Box

### List of Instruments we Calibrate

Mechanical Calibration		Thermal Calibration	
Pressure Gauge	Differential Pressure Transmitter	Temperature Gauge	Temperature Calibrator
Compound Gauge	Pressure Transmitter	Temperature Sensor - RTD's / TC's	Temperature Bath
Vacuum Gauge	Pressure Switch	Temperature Controller/ Indicator with Sensor	Hot Air Oven
Diaphragm Pressure Gauge	Vacuum Switch	Digital Thermometer	Dryers
Magnehelic Gauge	Pressure Controller / Indicator	Digital Thermometer with Sensor	Incubators
Digital Pressure Indicator	Pressure Data Logger	Wet & Dry Thermometer	Deep Freezer / Refrigerator

### Electro-Technical Calibration

#### List of Instruments we Calibrate

Digital Multimeter	Timer & Stop Watch
AC/DC Voltmeter	Loop Calibrator
AC/DC Ammeter	Multifunction Calibrator
Ohm Meter	Data Logger
Decade Resistance Box	Temperature Indicator / Scanner

## **Quality Policy**

We are committed to provide service of the highest possible level of quality. In order to achieve it, we are continuously improving processes, products and services to meet customer satisfaction.

## **Mission**

To provide a full range of calibration and Validation support services that meet our customer's needs.

To conduct all calibration using the best available instruments and standards that match the user requirement.

To build customer satisfaction through positive interaction and proactive service.

## **What is Calibration**

- The Comparison of a measuring instrument against an accurate standard to determine any deviation.
- The device with known assigned correctness is called the Standard. The second device is the Unit under Test (UUT).

## **Purpose of Calibration**

There are three main reasons for having instruments to be calibrated:

- To ensure readings from an instrument are consistent with other measurements.
- To determine the accuracy of the instrument.
- To establish the reliability of the instrument, over the time periodic calibration is required.

## **Approach to Calibration**

Our reference standards are traceable to the National and International System of Units (SI). In-house calibrations are performed in our state-of-the-art, environmentally-controlled metrology laboratory, which allows us to offer minimal measurement uncertainty for your sensitive standards and instruments.

Approved Standard Operating Procedure for Calibration of Instruments is followed.

Master Calibration Plan will be prepared and followed.

## **All parameters under one Roof**

We have facility with a broad range of calibration standards in Temperature, Pressure, Vacuum, Electro-Technical parameters and Timer calibration.

## **Provide Calibration to meet cGMP Requirements for Pharma Industries**

We provides Calibration services to meet cGMP requirement for API, Formulation and QC laboratories of Pharmaceuticals Industries. We provide Master Calibration plan, Calibration chedule and Calibration certificates with National and International standard.

## **Traceability**

The concept "traceability" describes a process in which the measured quantities displayed by a measuring device can be compared in one or several steps with a national standard for the indicated measurement quantities. These steps must form an unbroken chain of calibrations. In each case, one measuring device is compared with one standard whose metrological characteristics are determined by a comparison with a higher-level standard.

Omega Instrumentation & Controls (OIC) is an instrument manufacturing company, OIC is specialists in electrical instruments & process control and measuring instruments.

We manufacture & supply below quality products.

## Product List

- RTD PT-100 Temperature sensor
- All type of Thermocouples
- Precision Temperature gauge
- Digital Temperature Indicator
- Digital Temperature controller
- Process Indicator
- Digital Voltmeter
- Digital ampere meter
- DC - DC Converter
- Analog Timer
- Temperature Bath
- SMPS power supply
- Variable DC power supply
- AC current source
- Over current Relay for motor protection
- Earth fault Relay
- Safety valves
- Digital Pyrometer
- Relay Modules
- Hooter
- Pressure/Vacuum Gauge
- Pressure Comparator



### OMEGA INSTRUMENTATION AND CONTROLS

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