

## pH Meter Demonstrator

**Model : SE-1045**



**SINCOM SE-1045 pH Meter Demonstrator** is a comprehensive trainer for studying the measurement of pH value of a given liquid using PH sensors. This trainer is equipped with advanced features such as a Digital LED Display, pH sensor, Temperature sensor. The trainer also features an Auto Calibration Inputs, selection of different measuring inputs like pH, Temperature & mV of a given liquid under test.

### Features

- ❖ Multiple pH Measurement
- ❖ pH Sensor
- ❖ RTD Temperature Sensor
- ❖ Auto Calibration for pH of 7.00, 4.00 & 9.20pH
- ❖ Facility to select different measuring inputs
- ❖ Microcontroller Based System
- ❖ High Accuracy and Resolution
- ❖ Digital LED Display
- ❖ In-Built Fixed regulated DC Power Supply
- ❖ Presents a multi-color Circuit Diagram printed on the front panel of the white board
- ❖ Enclosed in an attractive, light weight, High Quality, Poly Coated Imported Pine Wooden cabinet
- ❖ Interconnections by 2mm high quality banana sockets and pins.

### Technical Specifications

▪ AC Mains Power Supply	: $230V \pm 10\%$ , 50Hz
▪ Fixed Regulated DC Power Supply	: +5V, +12V /500mA
▪ Sensor	: pH Electrode
▪ Temperature Sensor	: RTD PT100
▪ Calibration	: Automatic/ Manual
▪ Calibration level	: Three 7.00 pH, 4.00pH, 9.20pH
▪ pH Range	: 7.00 pH, 4.00pH, 9.20pH



An ISO 9001:2015 Co.

▪ Measuring Inputs	: Separate Push Switches for pH, mV and Temperature
▪ Controller	: Microcontroller Based system
▪ Display	: 3 <sup>1/2</sup> Digit LED Display
▪ Weight	: 5.0 kg (approx)
▪ Dimensions (mm)	: L 270 x W 390 x H 130
▪ Interconnections	: 2mm Banana sockets
▪ Operating Temperature	: 0-55 <sup>0</sup> C, 80% RH

### Learning Scope

- To study pH measurement of liquid.
- To study calibration process of pH measurement.
- To measure the pH value of liquid.
- To measure mV of the pH electrode.

### Other Instruments Required : Nil

**Accessories Included :** Liquids of Different pH values ,Patch Cords, Detail Instruction Manual.