

## 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

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|-----------------------------------|---------------------------------|
| ▪ 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       |



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|-------------------------|---|
| ▪ 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°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.