



(An ISO 9001 : 2008 Certified Company)

# MICROPROCESSOR pH METERS (VSI-101), (VSI-102) & (VSI-103)

- 🌀 Highly Stable & Accurate
- 🌀 Auto Buffer Recognition
- 🌀 Auto Temperature Compensation
- 🌀 Measures pH, mV & Temperature
- 🌀 Data Storage Facility upto 1000 Samples (In VSI-101)



**Microprocessor Based pH Meter (Model : VSI-101)** is a high performance micro controller based instrument for accurate, reliable and precise **pH & Temperature** or **mV & Temperature** measurements **simultaneously**. The microprocessor technology & advanced engineering techniques used, give enhanced accuracy and reproducibility. The instrument has in-built error codes which alert you to incorrect procedural errors. It has auto buffer recognition facility. Both auto and manual temperature compensation facility is available. It has 6 soft touch membrane type keys for ease of operation. Storage facility for 1000 samples has been provided, which are retained in the instrument's memory. It also has the provision for the attachment of any dot matrix printer.

The instrument is extremely useful for Chemical and Pharmaceutical Industries, Agriculture and Soil Analysis Laboratories, Swimming Pools, Water Quality Control in Boiler Feed Water, Water Works Department, Fertilizer Plants, Petroleum Refineries, Breweries, Water Purification Plants etc.

## Technical Specifications

### Microprocessor pH Meter ( VSI-101)

Function	pH or mV & Temperature Simultaneously
Display	16 Characters x 2 Lines Alphanumeric LCD
Power Supply	230 V ± 10%, 50 Hz AC
<b>pH Measurement</b>	
Range	0 to 14 pH
Resolution	0.01 pH
Accuracy	± 0.01 pH ± 1 Digit
Slope Adjustment	80% to 120%, By Default 100%
Temperature Compensation	0 to 100°C Automatic with Temp. Probe / Manual with Keys
Auto Buffer Recognition	4.00 pH, 7.00 pH & 9.20 pH
Calibration	Automatic as well as Manual, 3 Point / 2 Point (Programmable)
<b>mV Measurement</b>	
Range	-1999 mV to +1999 mV
Resolution	1 mV
Accuracy	± 0.1% ± 1 Digit
Calibration	Two Point Manual
<b>Temperature Measurement</b>	
Range	-20.0°C to +200°C
Resolution	0.1°C
Accuracy	± 0.1% of Range ± 1 Digit
Calibration	Two Point Manual
Sensor	Pt-100 Probe
Data entry	By Six Soft Touch Keys with Audible Sound
Storage Memory	1000 Samples
Real Time Display	24 Hour Mode with Date
Interface	RS-232, Centronics & Computer
Print Format	(a) All Data (b) Date Wise - (Programmable)
Digital Output	Serial RS-232 & Parallel Centronics (Programmable)
Error Indication	pH Error, ORP Error, CAL Error & T-Error

**Standard Accessories : pH Electrode, Temperature Probe, Buffer Solutions, Electrode Stand & Instruction Manual.**

### µP Based Digital pH / mV / Temperature Meter ( VSI-102)

PARAMETER	RANGE	RESOLUTION	ACCURACY
pH	0 to 14 pH	±0.01 pH	±0.01 pH ±1 Digit
mV	-1999 mV to + 1999 mV	±1 mV	±0.1% ±1 Digit
Temperature	0°C to 100°C	±0.1°C	±0.1% ±1 Digit
Calibration - pH	Two Point Automatic as well as Manual		
Calibration - mV	Two Point Manual		
Auto Buffer Recognition	4.00 pH & 7.00 pH		
Temperature Compensation	Automatic with PT-100 Probe, 0-100°C		
Display	16 Characters x 2 Lines Alpha Numeric LCD Display		
Mode Selection	Using Mode Key - pH/mV/Temp. & Calibration (Hold MODE Key for 3 Seconds to Change the Mode)		
Power Supply	230V ±10%, 50Hz AC		

**Standard Accessories : pH Electrode, Temperature Probe, Buffer Solutions, Electrode Stand & Instruction Manual.**

### µP Based (Portable) Digital pH / mV / Temperature Meter ( VSI-103)

PARAMETER	RANGE	RESOLUTION	ACCURACY
pH	0 to 14 pH	±0.01 pH	±0.01 pH ±1 Digit
mV	-1999 mV to + 1999 mV	±1 mV	±0.1% ±1 Digit
Temperature	0°C to 100°C	±0.1°C	±0.1% ±1 Digit
Calibration - pH	Automatic as well as Manual		
Calibration - mV	Two Point Manual		
Auto Buffer Recognition	4.00 pH & 7.00 pH		
Temperature Compensation	Automatic with PT-100 Probe, 0-100°C		
Display	16 Characters x 2 Lines Alpha Numeric LCD Display		
Mode Selection	Using Mode Key - pH/mV/Temp. & Calibration (Hold MODE Key for 3 Seconds to Change the Mode)		
Power Supply	9V Battery		

**Standard Accessories : pH Electrode, Temperature Probe, Buffer Solutions & Instruction Manual.**

Manufactured By :

## VSI ELECTRONICS PVT. LTD.

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