Microprocessor pH/Ion Meter

1016

Advantages

- Ion, pH, mV, Temperature
- 20 x 4 line Alphanumeric LCD with backlit
- 20 keys, Soft Touch Membrane Type
- Storage Up to 999 Samples
- Attachment for Centronics Dot Matrix Printer
- Ps2 keyboard connectivity
- Printer Attachment Facility
- Password protection for calibration
- Calibration due & Measurement alarms
- User friendly & reliable
- Upto 5 point of Calibration with auto buffer recognition
- Automatic error detection facility
- High accuracy & auto temperature compensation

1 Year Warranty

MICROPROCESSOR BASED PH/ION METER – 1016 is a solid state instrument designed to provide the precise Ion concentration, pH, mV, relative mV, & Temperature measurements. The instrument uses the latest Microprocessor technology and advanced engineering techniques so as to give enhanced accuracy and reproducibility. The system has user friendly prompts which guide you through out the measurement process.

The system has 20 soft touch membrane type keys for ease of operation. It has the storage facility for 999 samples, which are retained in the memory even when the system is switched OFF. Provision has been provided for attachment of centronics dot matrix printer so that any of the stored results can be printed. Provision has also been provided for attachment of PS2 keyboard so that ease of typing and use of alphanumeric keypad. These meters are equipped with a large customized LCD (Liquid Crystal Display) with simultaneous display of the measured values for easy reading.

The instrument is extremely useful for 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 Data

Inputs – BNC, Phono (ATC), Reference, Ground

Output – RS232C

Recorder Output – ± 1800 mV, 1 mV/mV unit

Power Requirements – AC/DC 9V Adapter (110 VAC/220 VAC)

Display – 24 x 4 lines Alphanumeric LCD with backlit

Dimensions (L x W x H) –

Weight –

pH	
Range	-1.000 to 14.000 pH
Resolution	0.001 / 0.01 pH (user-selectable)
Accuracy	± 0.002 / ±0.01 pH
Calibration	1 to 5 points (standard buffers)
pH Buffer Set Options	USA : pH 1.68, 4.01, 7.00, 10.01,12.45 NIST: pH 1.68, 4.01, 6.86, 9.18 ,12.45 Bf1: pH 1.68, 4.01, 6.86, 10.01, 12.45 Bf2: pH 1.68, 4.01, 7.00, 9.18, 12.45 Custom entry Buffer Calibration
Relative Stability	± 0.002 pH/Hour
Temperature Compensation	0 – 100 °C Auto/Manual
mV/ Relative mV	
Range	- 1999.9 to 1999.9 mV
Resolution	0.1 mV
Accuracy	± 0.2 mV
Calibration	mV offset up to ± 150 mV
Temperature	
Range	-5.0 to 105.0 °C; 23.0 to 221.0 °F
Resolution	0.1 °C / °F
Accuracy	± 0.3 °C / 0.5 °F
Calibration	Automatic Temperature compensation offset ±5.0°C/ ±9.0°F
Sensor	Semiconductor Type
Ion Concentration	
Range	0.001 to 19999
Resolution (High resolution mode: ±500.0 mV)	0.001 : from 0.001 to 0.999, 0.01 : from 1.00 to 9.99 0.1 : from 10.0 to 99.9, 1 : from 100 to 19999
Resolution (Low resolution mode: ±1850.0 mV)	0.001 : from 0.001 to 0.099, 0.01 : from 0.10 to 0.99 0.1 : from 1.0 to 9.9 , 1 : from 10 to 19999
Accuracy	± 0.5% of full scale for monovalent ions
Calibration	1% of full scale for divalent ions, 2 to 5 points
Min./ Max. Average Slope	10 mV/deacde / 75mV/ decade

Product Range

Semi Auto Analyser, Double Beam UV/VIS Spectrophotometer, Single Beam UV/VIS Spectrophotometer, Flame Photometer, Haemoglobin Meter, Photo Colorimeter, pH Meter, Conductivity Meter, TDS Meter, DO Meter, Salinity Meter, Turbidity Meter, Nephelometer, Colony Counter, Karl Fischer Moisture Titrator, Fluorometer, Dissolution Test Apparatus, Disintegration Test Apparatus, Friability Apparatus, Melting Point Apparatus, Bulk Density Appartus.