

## Microprocessor based pH meter

LP-139S



Microprocessor based TABLE TOP pH meter is an ideal instrument for Lab. It can be used for measurement of pH & Temperature.

Additional pH STAT option provides control for applications requiring the transfer of liquids for maintaining the pH in continuous reactions which may run for long duration. It eliminates the manual pumping of liquids and provides a contamination-free automatic pumping of liquids.

### Features (LP-139S)

- Auto Buffer recognition
- Selectable Temp compensation Auto /Manual
- Single or two buffer calibration
- Selectable Auto/ Manual calibration
- Printer Connectivity
- Standard print reports
- Advanced diagnostics i.e. electrode working condition etc.
- **Dual display – LED & Back lit dot matrix LCD**
- **Built – in STAT option for accurate pH**
- Supports peristaltic pump
- Selectable Acid/Base titration
- Corrosion free Fiber Enclosure
- Documentation supports to GMP

### Features (LP-139SP)

- LP-139SA Provides Unique in applications like transfer of solution liquids/chemicals for maintaining pH in R&D labs and Pilot Plants
- It is versatile tool for Bio-chemical reactions, which can run for long time it eliminates the manual pumping of liquids and provides a contamination-free automatic pumping of liquids
- Now you can relax while the pH STAT continues to control the pH of sample till experiment is completed

### Applications

- Pharmaceutical industries
- Food industries
- Chemical industries
- Chemistry Labs
- Ecology Studies
- Sewage Treatment
- Food Processing

## Specifications for Microprocessor based pH meter (LP-139S)

Technical			
Model No	LP139S		
Input Type	pH Electrode & Pt 100 RTD Sensor		
Measurement	Measuring Range	Resolution	Accuracy
Ph	0-14	0.01	± 0.01 without pH Buffers ± 0.05 with pH Buffers
mV	±1200	1	±1
Temperature	-50.0°C to 200.0°C	0.1°C	±(0.15+(0.002*t))
Display	0.5" 4 digit seven segment LED Display for Ph & mV 8 character X 2 line Alphanumeric Backlit LCD		
Keypad	Soft Tactile Membrane keypad		
Input Impedance	10 <sup>12</sup> ohms		
Ph Calibration	Auto /Manual, Single /Two Buffer		
Output	Digital O/P for Peristaltic Pump (Optional for Lp139SP-1) RS 232 for printer (Optional for EPSON LX-300+ )		
Temperature Compensation	0°C to 100°C (Auto/ Manual)		
Ph offset adjustment	±120mV @ 7pH		
Ph slope adjustment	80% to 105% of reading		
Connectors	pH: BNC female Temperature: 2 pin banana female		

### Power Supply

Input Supply	220V AC, 50 Hz 10VA
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### Physical

Enclosure	Fiber Reinforced Plastic (FRP)
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Weight	2.0 Kg
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### Accessories

Electrode Stand	Included
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Electrode	Not Included
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Temperature Sensor	RTD Pt100 Class A Glass Sensor (Included)
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Buffers	Not Included
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Printer (EPSON LX-300+)	Not Included
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Peristaltic Pump	Not Included
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### Environmental

Operating Temperature	10 to 50 °C
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Humidity	10-95%RH, Non-Condensing
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## Specifications for Peristaltic Pump (LP139SP)

### Technical

Model No	LP-139SP
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Flow rate	560ml / hr
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Number of rollers	6
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Speed	60 RPM
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Reversible	No
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### Physical

Roller Material	SS316
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Housing Material	Brass
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Dimensions	106X106X76mm
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Motor Type	AC Synchronous motor
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Motor Torque	10Kg cm
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Weight	2.5Kg (Approx.)
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Ordering Information for Microprocessor based pH meter (LP139S)		
Model No.	Printer Option	Future Use
LP139S	Y – Yes*	
	N – No	

Note: Order PRI232-01

Ordering Information for pH Electrodes (LP-130)		
Model No.	Printer Option	Future Use
LP-130	02 – CA11	

Ordering Information for Printer (PRI-232)		
Model No.	Printer Option	Future Use
PRI-232	1 – EPSON LX300 *	

Note: \* Order RS-232P

Ordering Information for Printer Cable (RS232P)		
Model No.	Printer Option	Future Use
RS232P	1 – 9 Pin to 25 Pin Computer cable	

Ordering Information for Peristaltic Pump (LP139SP)	
Model No.	Future Use
LP139SP*	X

Note: \* Optional