POLMON
Measure. Control. Automate.

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^{12} 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		
Physical			
Enclosure	Fiber Reinforced Plastic (FRP)		
Weight	2.0 Kg		
Accessories			
Electrode Stand	Included		
Electrode	Not Included		
Temperature Sensor	RTD Pt100 Class A Glass Sensor (Included)		
Buffers	Not Included		
Printer (EPSON LX-300+)	Not Included		
Peristaltic Pump	Not Included		
Environmental			
Operating Temperature	10 to 50 °C		
Humidity	10-95%RH, Non-Condensing		

Specifications for Peristaltic Pump (LP139SP)

Technical	
Model No	LP-139SP
Flow rate	560ml / hr
Number of rollers	6
Speed	60 RPM
Reversible	No
Physical	
Roller Material	SS316
Housing Material	Brass
Dimensions	106X106X76mm
Motor Type	AC Synchronous motor
Motor Torque	10Kg cm
Weight	2.5Kg (Approx.)

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 *	

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

Note: * Order RS-232P

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

Note: * Optional

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