POLMON
Measure. Control. Automate.

Micro controller Based pH STAT Analyzer

LP-139SA



POLMON pH STAT/ANALYSER with Advanced Features like pH Documentation, pH STAT, Multi point (1,2,3,4,5) Calibration, Auto Buffer Recognition, Selectable NIST, DIN, USA, Custom buffer standards and makes it an Unique Instrument for pH Analysis in Research & Testing laboratories.

pH Documentation Features like Storage & Printing options for Sample Data, Calibration Data with Electrode efficiency make it versatile for regulatory documentation requirements like Technical Information Sheet(TI Sheet)etc.

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-139SA)

- Auto Buffer recognition up to 5 Buffers
- Selectable Temp compensation Auto /Manual
- Standard Buffers selection between NIST/DIN/USA (In Auto Mode)or Customized (Only in Manual Mode)
- Selectable Auto/ Manual calibration
- Printer Connectivity
- Samples storing facility up to 100 samples
- Auto Printing with selectable Print interval
- Storage samples Print reports either specific sample/ Range selection/ all stored samples
- Each sample identified with unique numerical ID
- Last calibration details report along with Electrode Efficiency
- Customized Print report header which can be entered/Modified by the user
- 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 ABS 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

Application

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

Specifications for pH Stat / Analyzer (LP139SA)

Technical			
Model No	LP139SA		
Input Type	pH Electrode & Pt 100 RTD Sensor		
Measurement mode	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		
	8 character X 2 line Alphanumeric Backlit LCD		
Keypad	Soft Tactile Membrane keypad		
Input Impedance	10^{12} ohms		
Ph Calibration	Auto /Manual Recognition, Up to 5 Buffer (NIST, DIN, USA)		
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		
No of samples storage	100		
Connectors	pH: BNC female		
	Temperature: 2 pin banana female		
Power Supply			
Input Supply	220VAC, 50HZ		
Physical			
Enclosure	High Impact ABS		
Dimensions	215x225x75mm		
Weight	2kgs (Approx.)		
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 pH Stat / Analyzer (LP139SA)		
Model No.	*Printer Option*	*Future Use*
LP139SA	Y – Yes	

Ordering Information for pH Electrodes (LP-130)		
Model No.	*Printer Option*	*Future Use*
LP-130	01 – CL51B	

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.	*Flow rate*
LP139SP*	2 – 550ml/ Hr

Note: * Optional

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