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CyberScan pH 2100



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Product Features

- :: High Resolution and Accuracy (Up to ± 0.002 pH Accuracy) for precise measurement
- :: Backlit Two Line, Dot Matrix LCD Display provides clear instructions for setup, measurement and calibration
- :: Direct Ion Concentration measurement with use of many Ion Selective Electrodes (Only Available in CyberScan pH 2100)
- :: Multi-Point Push-Button Calibration with Auto-Buffer Recognition (Up to 5 points) for optimum full-range accuracy
- :: User-Customization for enhanced flexibility like pH resolution, etc. and viewing of electrode diagnosis - pH slope/offset/mV base value, and previous calibration points
- :: Calibration Due Alarm prompts at user-defined interval to ensure regularly scheduled recalibration for ISO and GLP compliance
- :: Automatic Downloading of data into memory or computer via a cable at desired time intervals or whenever reading stabilizes
- :: Expanded Memory stores and recalls up to 100 data sets either manually or on programmable real-time intervals
- :: Built-In Real-time Clock stamps stored data and calibration data with time & date - meets standards for GLP purposes
- :: High/Low Set Point Alarm alerts once reading outside preset limits
- :: RS232 Communication interface to download data to a printer or PC with complimentary Windows®-based DAS software for report documentation
- :: Analogue Recorder for external chart recording devices
- :: Automatic Temperature Compensation (ATC) for best accuracy under fluctuating temperatures
- :: Stability Criteria options determine stability of reading from instantaneous to moderate speed ideal for difficult sample measurement
- :: Hold Function momentarily freezes reading for easy viewing and recording
- :: Self-Diagnostic with message codes for easy troubleshooting
- :: Slide-Out Instruction Card for quick reference
- :: Detachable Electrode Stand organizes multiple electrodes neatly and holds them firmly in place



LCD display



DAS for communication to computer

Applications

Laboratory/Industrial: Use for water quality testing, sewage treatment, soil/fertilizer testing, food processing (for HACCP compliance), geological testing. Great for R&D and QC applications in the food and pharmaceutical industries, paper/pulp processing, chemical industries and related fields. Suitable for most ASTM and EPA test procedures.

Educational: Perfect for research labs, suitable for all types of chemistry labs and ecology studies.

ORP: Use ORP electrode to monitor plating operations, ozonation system efficiency, and other redox measurements.

Specifications

Product Specification	Description
pH Range	-1.000 to 14.000 pH
Resolution & Accuracy	0.01/0.001 pH & $\pm 0.01/0.002$ pH
Ion Concentration Range	0.001 to 19999
Resolution & Accuracy	± 1 LSD & $\pm 0.5\%$ of reading
mV Range	-1850 to +1850 mV
Resolution & Accuracy	0.1 mV & ± 0.2 mV
Temperature Range	-5.0 to 105.0 °C (23.0 to 221.0 °F)
Resolution & Accuracy	0.1 °C (0.1 °F) & ± 0.5 °C (0.9 °F)
No. of Calibration Points	1 to 5
pH Buffer Options	USA: 1.68, 4.01, 7.00, 10.01, 12.45 NIST: 1.68, 4.01, 6.86, 9.18, 12.45 User 1: 1.68, 4.01, 6.86, 10.01, 12.45 User 2: 1.68, 4.01, 6.86, 10.01, 12.45 Custom: min. of 2 and max. of 5 points
No. of Ion Calibration Points	5 (min. 2 points)
Memory	100 Data Sets with Date/Time stamping
Temperature Compensation	Automatic/Manual (0 to 100 °C)
pH Slope & Offset Display	Yes
Print Output	Bi-directional RS232C, Recorder (± 1850 mV)
Display	Alpha-numeric Dot-matrix LCD with backlight
Special Functions	Auto-buffer recognition, Date/time indexed (GLP compliance); Calibration due prompt, Alarm; Stability criteria Stability Indicator & Self-diagnostic
Power	9VDC, using AC adapters 110VAC or 220VAC, 50/60 Hz

Order Information

Order No.	VAC	Item
EC-PH2100/115	110	CyberScan pH 2100 Bench Ion/pH/mV RS232 Meter with DAS, RS232C cable, ATC probe, integral electrode holder & power adapter
EC-PH2100/215	220	CyberScan pH 2100 Bench Ion/pH/mV RS232 Meter with DAS, RS232C cable, ATC probe, integral electrode holder & power adapter

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