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Find the *General Transco / Electronetics EC-PBS-B* at our website: *Click HERE*

PULSATING BUBBLE SURFACTOMETER (PBS)



The PBS is a research instrument for the study surfactant. It measures the pressure difference ac surface of a bubble and calculates the surface ter liquid in which the bubble is formed. The measu performed dynamically at bubble pulsating rates the user from 0 to 100 cycles per minute.

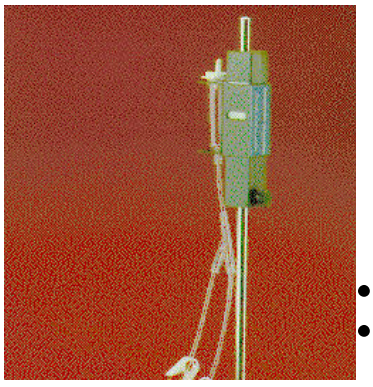
The PBS is also useful for research on any organ containing amphipathic molecules where an air- interface is important. Such liquids could be:

- Toxic Agents	- Amniotic Fluid	- Urine	- Tears
- Serum	- Bile	- Plasma	- Mucus

Features and Benefits of this new and unique product:

- The liquid sample is small (25 microliters) and may be evaluated in a matter of minutes.
- The disposable sample chamber is easily and quickly filled.
- The automatic control of the water bath, which surrounds the sample liquid, is 34.0°C to 50.0°C. The tem be changed externally to a range of 8°C to 90.0°C.
- The microprocessor-based system produces a waveform or alphanumeric print-out of surface tension or s pressure.
- The residual fluid from the previous sample is rapidly cleaned by the flush system.
- The PBS system includes a Pressure Calibrator and the Series 2000 software package described below.

PBS PRESSURE CALIBRATOR



The PBS Pressure Calibrator is specifically designed for the PBS. It can be use the pressure transducer circuits or verify calibration linearity prior to sample m A rapid calibration check prior to critical measurements provides that extra lev confidence and quality assurance.

FEATURES

- Rapid and accurate calibration.
- Ease of set-up with distilled deareated water.



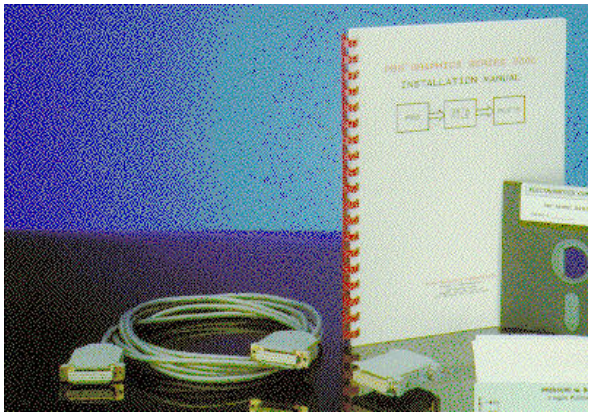
- Single hand operation for convenience.
- Instruction manual on calibration procedure.
- Quick settling time of water enables a rapid check.
- Easy to read scale allows comparison of PBS recorder output and calibration le
- Adjustable levels from 0 to -4.5 cm of water in 0.5 increments.
- Replacement parts available.

PBS GRAPHICS Series 2000

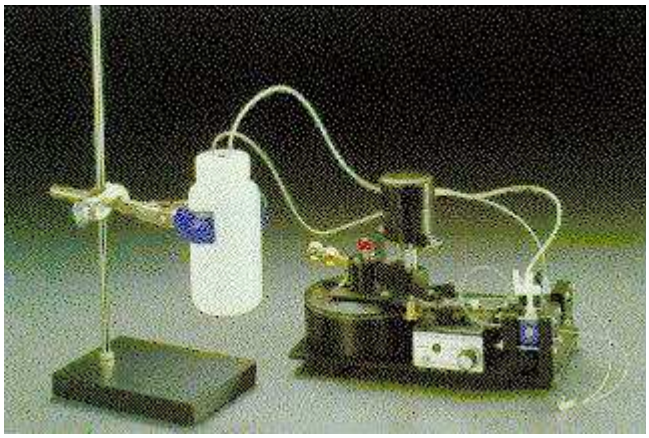
The PBS Graphics Series 2000 software package will acquire, manipulate and graph the measurement data obta the PBS. The user can plot pressure vs. bubble volume, surface tension vs. bubble radius, and surface tension vs surface area.

FEATURES

- Menu-driven… user friendly.
- Views single or multiple runs.
- Uses dot matrix printer.
- Requires 640 K memory.
- For use with IBMä PC, XT AT or compatibles (CGA, EGA).
- Includes diskette, installation manual, cable and security key.
- Product update and customer support available.
- Requires one parallel printer port and one serial I/O port.



PBS HYPOPHASE EXCHANGE SYSTEM



The Hypophase Exchange System is specifically designe conjunction with the PBS. It allows the liquid surroundi with its film to be replaced with distilled water or any ag to affect the properties of the film, such as protein, enzy fatty acids, etc.



The Hypophase Exchange System is a unique sample chamber design, which communicates with a special tubing that is filled with the liquid to be introduced into the sample chamber. The volume of liquid from the special tubing is displaced by a roller and moved into the sample chamber. Concurrently, an equal volume of liquid is displaced from the sample chamber, therefore, no pressure difference is created and bubble size remains constant.



FEATURES

- Exchanges the hypophase without affecting the bubble size.
- Sample changer easily removed and replaced.
- Variable rate of fluid exchange.
- Automatic shut-off when exchange is complete.
- Adapts to any Pulsating Bubble Surfactometer (PBS).
- Complete user-ready system, which includes power supply, two special sample chambers, and a compreh operator manual.

Home

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