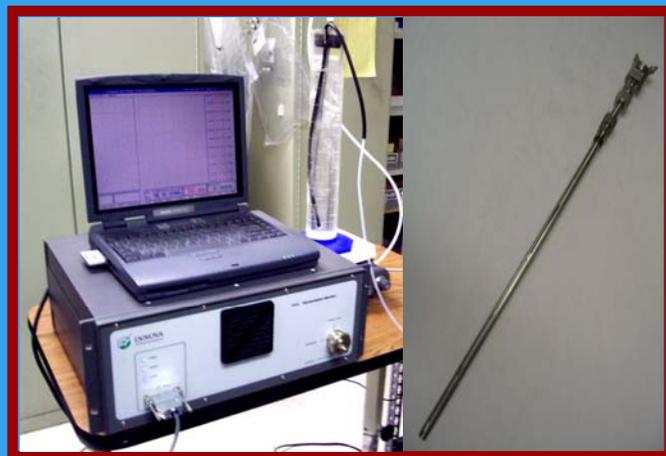


MICRO PROBE

For measuring DISSOLVED GASES
in Fluids



APPLICATIONS

- Fermentation Media
- Industrial Waste Water
- Ground Water Monitoring
- Process Water Analysis
- Product Contamination
- Cooling Towers
- Soil Remediation
- Municipal Waste Water
- Hazardous Waste Analysis
- Gases in Bodies of Water
- Solvent Stripping

FEATURES

- Real time/Online analysis
- Rugged
- Minimal Maintenance
- No Special Sample Handling
- Easy to Install
- Works with Any Gas Analyzer
- Custom Diameter or Length

DESCRIPTION

California Analytical Instruments, Inc. offers an ONLINE or PORTABLE—REALTIME method for measuring dissolved gases in fluid solutions. The MICROPROBE* is an excellent alternative to traditional laborious and costly extractive methods. With the MICROPROBE, it is no longer necessary for a technician to spend valuable time grabbing potentially hazardous samples for expensive laboratory analysis. In addition to eliminating the cost of laboratory analysis, the MICROPROBE provides fast, real time, results without the need for complicated sample handling equipment *and* can work with virtually any gas analyzer.

The MICROPROBE only measures dissolved gases, therefore, no liquid sample is removed. Since there is no sensor in the solution, there is no need for difficult calibrations or chance of poisoning.

METHOD OF OPERATION

The MICROPROBE is fully submersible and consists of semi-permeable micro-porous Teflon™ tubing encased in a slotted stainless steel housing. The MICROPROBE is inert to most organic and inorganic materials. The casing is constructed of electro-polished 316 stainless steel and is available in any specific diameter or length. A pump pulls air through the tubing allowing dissolved gases and vapors in the aqueous solution to diffuse through the micro-porous Teflon into the air sample and to the gas analyzer for analysis. The gas analyzer must either be able to deal directly with water vapor or a sample dryer can be used. The MICROPROBE operates at ambient pressures and can withstand temperatures in excess of 100 degrees C. Measurements can be either continuous or set to preprogrammed intervals. The MICROPROBE can be sterilized in either steam, ethylene oxide or other sterilizing agents.

* Patent pending.



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