



CellPhase®*

Non-invasive Sensors for pH and DO

Introducing a full line of disposable, non-invasive optical sensor systems for measuring pH and DO. The CellPhase "coaster" system uses "peel-and-stick" sensor patches that are disposable and sterilizable. These patches may be applied to virtually any clear reactor vessel including flasks and bags. Available in single, dual or quad channel systems.

Specifications

- DO range: 0-100% air nominal
- pH range: 5.5-8.5 nominal
- Sensing platform: 3-inch diameter
- Standard USB PC interface, draws power from USB
- Software included
- Laptop computer optionally included
- Single, dual or quad channel systems available

Key Features

- Non-invasive
- Compact
- Easy, labor saving design - virtually calibration-free
- Ideal for laboratory use, unattended operation
- Real-time, continuous monitoring, logging, display
- USB interface

Finally, you can non-invasively gain access to real time data for precision monitoring and control of your fermentation and cell culture experiments.

Disposable "peel-and-stick" sensor patches may be attached to any transparent vessel for non-invasive optical monitoring from outside the vessel.

CellPhase uses a phase-based fluorometer for the real-time monitoring of pH or DO.

The CellPhase "coaster" actually resides outside the fluid, illuminating a special, one time use, chemically treated luminescent patch placed within the fluid. This causes, in response, luminescent light energy to be generated which, when collected and properly analyzed, provides precise information about the desired parameter to be measured in the fluid. This non-invasive technique ensures that the sensing instrument requires no sterilization and only minimal cleaning between uses. Coupled with a calibration procedure that can be performed in under 60 seconds with a single keystroke, operator labor is reduced by orders of magnitude.



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