

# Cyrus, Athena - Universal Electrochemical Reader

## 16 assays simultaneously for multiplexing detection

GeneFluidics' novel electrochemical detection platform enables the achievement of PCR-like sensitivities without target amplification or purification by combining the established technologies of hybridization and antigen/antibody interactions with well characterized electrochemical measurement techniques.

GeneFluidics Cyrus reader quantitatively predicts target concentrations using amperometry and cyclic voltammetry. The reader's uses includes both life science research and diagnostics.

- Life science research. Vary reaction parameters (concentration, impedance, mixing) and kinetics (time vs. signal) or fix conditions for routine assays.
- Diagnostics. Detect calibrated reactions with 10 picoamp resolution over a six order dynamic range (10 picoamp to microamp). LOD is ~ 1fM (1E-15) for most genetic assays and 1 pg/ml for immunoassays excluding human error.

Components include easy to use standardized hardware and software.

- Hardware. Independent control simultaneous measurement. Run static reactions through amperometric analyses and dynamic reactions through cyclic voltammetry and differential pulse amperometry.
- Software. Graph channel results individually or in overlay through build-in macros. Export data to Excel spreadsheet for further analysis.

To discuss your specific application or technical requirements, please call (323) 269-0900 or e-mail to [info@genefluidics.com](mailto:info@genefluidics.com) or visit us at [www.genefluidics.com](http://www.genefluidics.com).



Multi-channel Cyrus reader

- Simultaneous detection on multiple channels for different targets. Ultra sensitivity and low variance across the sensor array.

- CE certified.



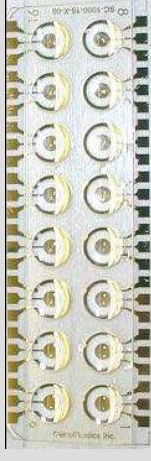
Multi-channel Athena system

- Simultaneous detection on multiple channels for different targets. Ultra sensitivity and low variance across the sensor array.
- Built-in automatic chip loader to provide consistent chip interface



Sensor array chip

Sixteen independent electrochemical sensors for multiple assays on one chip. Different surface functionalities available.



**GENEfluidics**