

# PCDAQ Data Acquisition Software

The PCDAQ software (**PCDAQ/S**), v 3.1 is designed to provide simple data logging, trending and alarm functions for the *Wave Bioreactor* cell culture systems. Features include:

## **RS485-232 CONVERTER AND CABLING**

All cables and a port-powered converter are included to interface a Windows PC to the RS-485 MODBUS Wave Bioreactor data highway.

## **PRECONFIGURED SOFTWARE**

Software is designed specifically for the *Wave Bioreactor* system. Quick installation will have you acquiring data within minutes.

## **DATA LOGGING FUNCTIONS**

Data is logged for all process values. Data storage is limited only by hard disk capacity. Exception logging minimizes disk space usage.

## **TRENDING**

Data is trended in real-time. Trend scale and time period can be adjusted by the user. Stored historical data can also be trended for any logged period in the past.

## **ALARM LOGGING SUPPORT**

Alarms can be logged for instruments. The alarm log shows the time the alarm occurred, the time it was acknowledged, and the time the alarm cleared. All events, such as setpoint changes are also logged.

## **SPREADSHEET GENERATION**

Data can be recorded in spreadsheet format for use with standard programs such as Microsoft Excel for analysis, report generation, and statistics.

## **EXPORT TO OTHER PROGRAMS**

Logged data can be queried by any SQL capable program for custom reporting and data acquisition. OPC compliant functions for data server applications

### **Performance:**

Runtime license for one PC controlling up to 5 Wave Bioreactors  
Preconfigured screens and database for rapid programming-free deployment.  
Includes OEM version of industry-standard Lookout 5.1 software  
SQL-compatible process data database  
OPC compliant server functions.

### **Requirements:**

Pentium 4 class processor with free serial port (COM1)  
Minimum 32Mb RAM and 45Mb free disk space  
Windows 2000/NT4.0/XP or later  
Optional Ethernet port or hub port

### **Options:**

**PCDAQ/M** extends PCDAQ license to allow 5 PCs (1server+ 4 clients) to access data on user network from up to 5 Wave Bioreactors.  
**PCDAQ/A** extends license to additional unlimited number of Wave Bioreactors.  
**PCDAQ/DEV** is a developer version hat allows the user to generate new runtime configurations, custom screens, control strategies and database design (unlimited IO).