

Celltrol II Bioreactor Control System



PLC Based Bioreactor Control System

- Control 12 Bioreactor Control Loops on a single or on multiple bioreactors including pH, DO, Temperature, Level, Weight, Agitation Speed, Redox and Flow.
- Allen Bradley PLC Based Controller provides open architecture for ease of validation and/or customization.
- Compact Stainless Steel Size provides greater bench space for Bioreactors and other support equipment.
- System will operate with any manufacture's vessel.
- Probe calibration at operator interface.
- Operator programmable alarms.
- Easy Side access to individual din rail mount transmitters provides flexible architecture for calibration and maintenance.
- Password Protected user configurable outputs. Multiple outputs can be assigned to any independently tunable control loop.
- Optional Software Package with Ethernet interface to provide remote monitoring, data trending and storage capability. Stored Data is easily converted to an Excel Spreadsheet.

Specifications

- Operator Interface: 6" Color Touch screen.
- PLC: Allen Bradley Micrologix 1500
- 304 Stainless Steel Construction
- Power: 115 V AC Power @ 15 Amp.
- Size: 20" High x 20" Deep x 12" Wide.
- Heater Blanket Outlet: (2) 600 Watt.
- Non Heater Blanket Outlets: (10) 1 Amp Outlets.
- Pumps: Up to (6) Front Mounted Watson Marlow 103 Series Pumps
- Vessel Size Compatibility: 1L to 36L
- Optional Software: RS View w/RS Linx using TCP/IP protocol to communicate with multiple CellTrols. Software configurable for 21CFR Part 11 compliance.
- Independent Dry Contact alarm interface for remote monitoring.



Phone: 610-363-2650 Fax: 610-363-2583 Email: vicmail@valley-instrument.com



VALLEY INSTRUMENT COMPANY
491 Clover Mill Road Exton, PA 19341

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Accessories



Optional Tethered Speed Drive

- Powers any agitation motor from the Celltrol II.
- Required if vessel agitator motor is not self contained.
- Can be configured to other DC voltage motors.

Standard Specifications

- 304 Stainless Steel Construction
- Power: 115 V AC Power @ 15 Amp.
- Size: 12" High x 12" Deep x 6" Wide.
- Digital tachometer input.
- 0 - 36 volts DC controlled output.
- Captive 6' cable to interface with Celltrol II.

Custom Specifications

- Digital or analog tachometer feedback capabilities.
- Analog output configuration for any permanent magnet motor up to 1/2 HP motor.



Optional Single Support Flow Station

- Provides gas blending capability of up to (5) gases with independent flow control.

Specifications

- Epoxy painted aluminum enclosure.
- Size: 8 3/4" High x 15" Deep x 8 3/4" Wide.
- Stainless steel hose barb connections on inlet and outlet.
- Outlet gas connections fitted with stainless steel quick-connects.
- Maximum of (5) rotometers installed with customer specified flow rates.
- Maximum of (5) 115 V AC solenoid valves can be installed on specified gases. Valves controlled by external 115 V AC source.
- Gases can be plumbed with independent headspace overlay and gas sparge.