

in-Control | Simply Powerful

- Increased flexibility by optional extra inputs and outputs
- Easy operation through touch screen interface and through web browsers
- Enhanced gas addition strategies via up to 4 Mass Flow Controllers
- Reduce footprint by small size controller
- Replacement of ADI biocontrollers

The in-Control is a process controller for laboratory scale bioreactors, offering high level control on a small footprint. The controller can be used for both cell cultures and microbial cultures. The system is designed to replace the ADI 1010 and ADI 1030 BioControllers. The intuitive human interface is a built-in color touch screen. This modular system allows you to create the most optimal set-up as you can add any extra inputs or outputs. You are in control.

Features

- Control of all bioprocess parameters, including pH, temperature, dissolved oxygen, agitation, foam and level
- Selectable autotuning adaptive PID control for accurate control when process conditions change during the culture
- USB connection for optional biomass or fluorophor pH and DO sensors and balances
- Ethernet communication to SCADA
- Same familiar Applikon control platform as ez-Control, ez2-Control, in-Control, SUB-One controller

Applications

- Microbial and Cell cultivation
- Batch, Fed-Batch, Perfusion and Continuous cultivation
- Autoclavable bioreactors up to 7 liter volume
- Single-use Bioreactor processes

Related products

- Autoclavable bioreactors
- Single-use bioreactors
- AppliSens sensors
- Lucullus software
- V-Control software



Specifications

Sensors

pH Sensor	Traditional electrochemical or Single-use
DO sensor	Traditional Polarographic, LumiSens or Single-use
Redox	Traditional electrochemical
Temperature	Pt-100, measurement Range: 0-150 °C accuracy 0,1°C
Foam/level	Resistive based measurement
Weight	Input for external balances
Optional	Biomass (Capacitance or optical density) or Offgas measurements
Additional I/O	Up to 4 Analog in and 4 Analog out, up to 8 Digital out

Actuators (optional)

Gas	External gas box, options for 4 MFC's or 4 Rotameters
Liquids	Using powerbox up to 8 digital outs for switchable pumps, up to 4 external variable speed pumps
Stirring	0-2000 rpm
Temperature	Heating blanket or cooling with cold water water valve

Control

Control Hardware and Software platform	Applikon proprietary and Applikon Firmware
Certifications	CE certified, GAMP compliant,
21 CFR part 11 compatible	Yes
Communication & SCADA	Lucullus PIMS, BioXpert W10, DeltaV Applikon OPC server available

