



Cultivation Systems From Discovery to Production



Engineering for Life

ez2-Control | Easy to Control your Bioreactor

- Powerful software features to simplify and optimize bioprocesses
- Up to 6 Mass Flow Controllers
- Less maintenance due to brushless motor



With a new fresh look, the ez2-Control is there to simplify your bioprocess. Its multiple software innovations make it easy to control your bioreactor. The new web-interface for ez2-Control (also compatible with ez-Control) provides a clear overview of the parameters of your bioprocess, putting the attention right where it's needed. Advanced user management enables you to create up to 21 users on 2 authorization levels. Back-ups, copies and pre-defined settings of configurations can simply be shared via USB. Extra flexibility is brought by additional analog and digital inputs / outputs. The new brushless motor requires less maintenance, which saves you costs in the long term. Only one cable for the motor power and feedback is required. The ez2-Control comes with a motor support at the side of the device for easy operation.

Features

- Remote desktop support
- Standard Redox connection included
- One connection / cable for motor power & feedback
- User friendly web-interface
- Full integration of digital sensors
- Adaptive PID
- Free loop configuration
- Gravimetric feed / flow control
- Total gas flow control to reduce shear stress for cell cultivations
- Same familiar Applikon control platform as ez-Control, my-Control, in-Control, SUB-One controller

Applications

- Microbial and Cell cultivation
- Batch, Fed-Batch, Perfusion and Continuous cultivation
- Autoclavable bioreactors up to 20 liter volume
- Single-use Bioreactor processes
- Steam-in-place bioreactors

Related Products

- Redox sensor
- Brushless motor
- Motor support for M10 and M20 motors
- V-Control
- Lucullus software

Specifications

Sensors

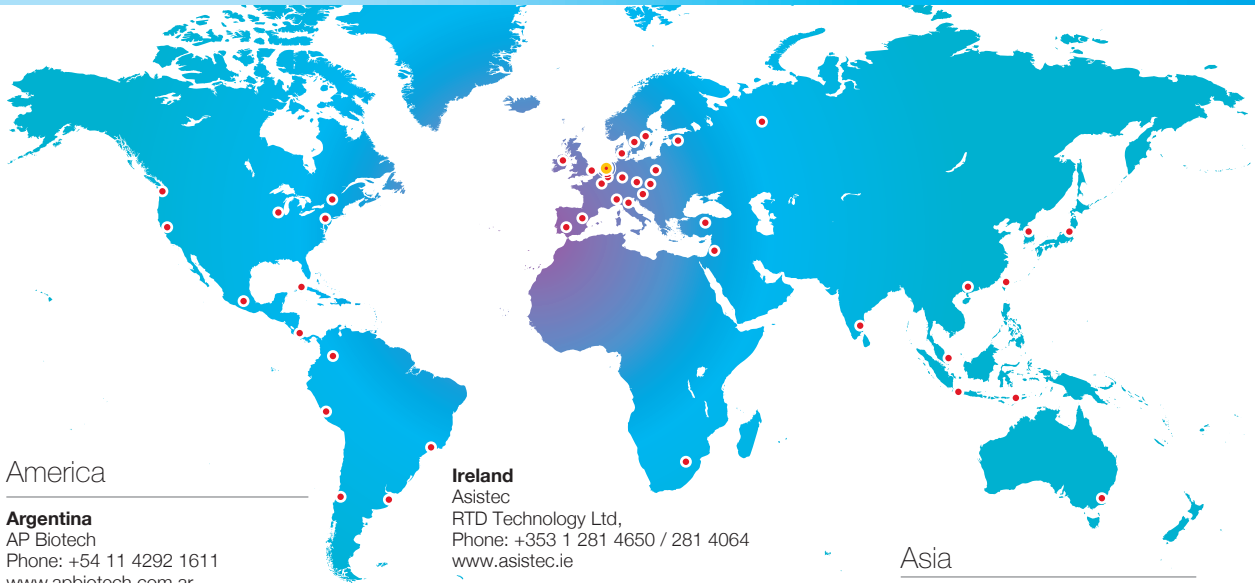
pH Sensor	Traditional electrochemical or Single-use Measurement range: 0-14 pH, accuracy 0,01 pH
DO sensor	Traditional Polarographic, LumiSens or Single-use Measurement Range: 0-100% saturation, accuracy 0,1%
Redox	Traditional electrochemical Range 2000 mV, accuracy +/- 1 mV, resolution 1 mV
Temperature	Pt-100 Measurement Range: 0-150 °C accuracy 0,1°C
Foam/level	Resistive based measurement
Weight	Balances
Optional	Biomass (Capacitance or optical density), offgas measurements, pressure
Additional I/O	Up to 8 Analog in and 4 Analog out Up to 8 Digital In and 8 Digital out

Actuators

Gas	Up to 6 MFC's with solenoid valves or Up to 4 rotameters with solenoid valves
Liquids	Up to 3 internal fixed speed pumps Up to 4 external variable speed pumps
Stirring	0-2000 rpm with feedback, accuracy 0,1% FS
Temperature	Heating blanket or internal Thermocirculator Cooling with cold water water valve

Control

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



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