



# In-Control

Simply powerfull

# Sustainable Life Science

## Passion for all dimensions of Life

Together with our partners and customers, we do everything we can to improve on dimensions of life: Planetary Life, Human Life, Patient Life, Professional Life, Business Life and Societal Life.

To improve on Planetary Life for example, and to give us all a healthier and better future, we aim to do all we can to minimize our impact on the environment. We channel our efforts into a set of initiatives, carried out in collaboration with stakeholders across our value chain.

Getinge is committed to becoming a net-zero company by 2050 across the full value chain and our targets have been approved by the Science Based Targets initiative. Getinge has signed the UN Global Compact and we support its ten principles on human rights, labor, environment and anti-corruption. Our sustainability work is governed by our Code of Conduct and a number of policies such as human rights, anti-corruption and the environment.

Read more on [www.getinge.com](http://www.getinge.com)

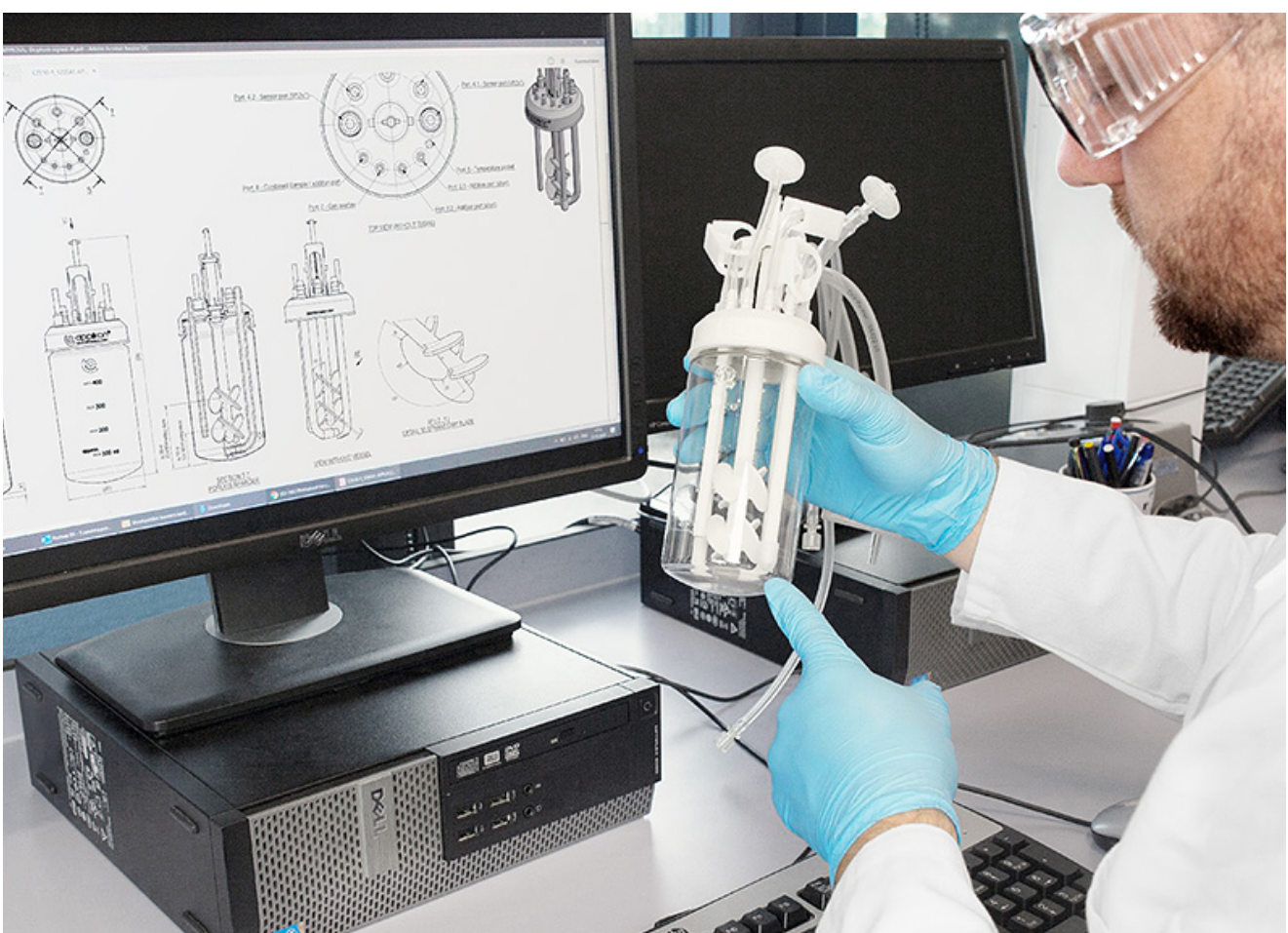


SUSTAINABLE DEVELOPMENT GOALS



WE SUPPORT

ecovadis  
Business Sustainability Ratings



# Partner of Choice

## For the life science industry

Our aim is to support scientists, (cell)biologists, lab managers and operators achieve their goals: Improving quality of life.

Our bioreactor system portfolio covers the whole upstream bioprocess, ranging from laboratory scale and

pilot plant scale to production scale. Whatever your application is, we have the right products for you to optimize the growth of cells and bacteria that is key to the production of life-saving products.



Vaccines



Bio-Pharmaceuticals



Regenerative Medicine



Food and Beverages



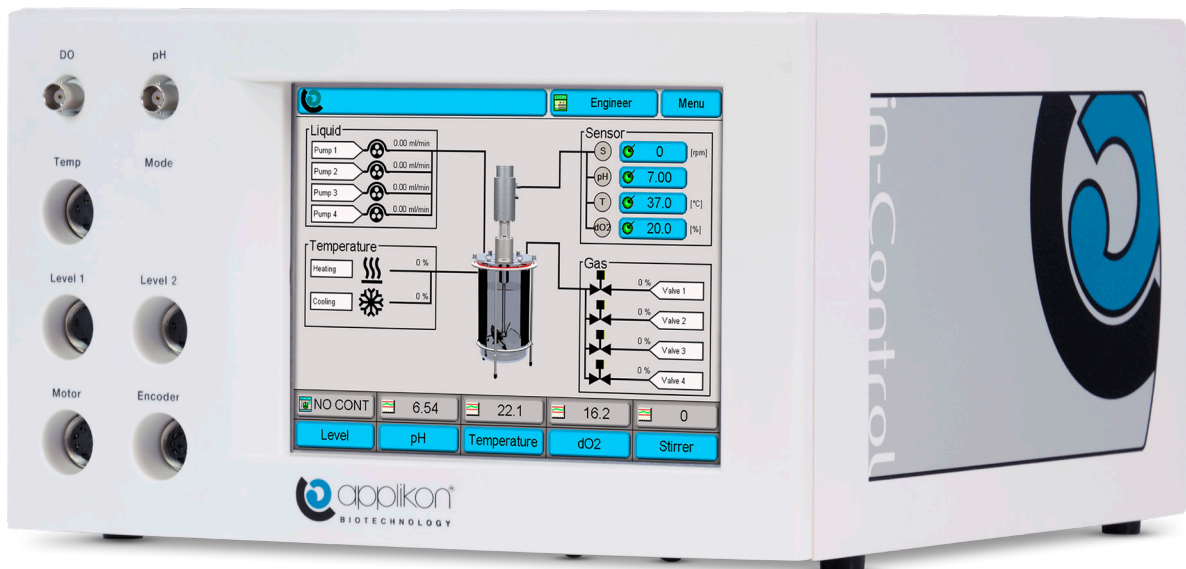
Bio-Chemicals



Bio-Fuels

# in-Control

– Simply Powerful



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 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.

## Benefits:

- 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

## Applications:

- Microbial and cell culture
- Cell and gene therapy
- Cellular agriculture
- Screening studies
- Media optimization
- Process optimization
- Batch, Fed-Batch, Perfusion and Continuous cultivation



## 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 valve
Control	
Control Hardware and Software platform	Getinge proprietary and Getinge Firmware
Certifications	CE certified, GAMP compliant
21 CFR part 11 compatible	Yes
Communication & SCADA	Lucillus® PIMS, BioXpert W10, DeltaV™ Getinge OPC server available

## 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 Getinge control platform as the ez-Control, ez2-Control, in-Control, SUB-One controller

## Related products:

- Autoclavable bioreactors
- Single-use bioreactors
- AppliSens sensors
- Lucillus® software
- V-Control software



# Getinge Service

## – Total Process Control for You

With Getinge, service goes beyond replacing gaskets. Service is about in depth product knowledge to provide best in class preventive maintenance. Service is an investment in reliable equipment, a reliable process and about providing advice to the to help improve efficiency. In Getinge Service you will find our complete service offer to ease your daily challenges.

### **Getinge Service for bioreactor systems contains**

- Workflow Optimization & Application Support
- Quality & Compliance
- Standard Service
- Extended Warranties
- Installation, Relocation and Retrofitting Services
- On-Demand Service



## Quality & Compliance

All Getinge equipment is tested thoroughly throughout the manufacturing process. During our in house verification processes we perform comprehensive tests on all Getinge equipment. All quality documentation is supplied with our systems. The quality documentation is setup in such a way that it is ready to use for your validation and qualification process. Tailored to your requirements we can assist with Factory Acceptance Tests (FAT), commissioning, Site Acceptance Test (SAT) and IV/OV.

We bring over 40 years of experience with cGMP and EUDRALEX in verification, validation and qualification. Our projects department can assist your in defining your requirements right from the start. It will make your life easier knowing that our experts in the bioreactor field have defined your URS so that no detail is overlooked and all specifications are realistic and achievable.

## Standard Warranty

All Getinge equipment is guaranteed for one year after delivery against defective materials and workmanship. All component parts of our products are covered by this warranty, except for normal consumable items such as glassware, sensors, O-rings and gaskets etc. Warranties are voided by unauthorized service of equipment.



# Getinge Academy

## – Be the Expert

Get trained and be ready! Well-trained scientists, operators, and engineers make sure that our systems are fully utilized in your operations. In our vision, training and instruction on how to operate our scientific equipment to make optimal use of its capabilities is not a one-time occurrence, but needs to be repeated on a regular basis.

That's why we created a curriculum to fit your needs. The courses range from educational hands-on and theoretical "Fermentation & Cultivation" sessions, to advanced SCADA/PIMS software training. Our team of bioprocess experts is ready to give you advice on basic or advanced process optimization questions, including process scale-up, aeration, mixing, temperature, pH, and dissolved oxygen control, plus other process controller settings.



Our in-house laboratory is equipped to run cultures and to mimic your process conditions so that recommendations can be drawn up for you based on hands-on experience. Through our Workflow Optimization Assessment we can even design training programs for your employees, as well as put together a curriculum for you. Training can also be held at your facility for a private training session or in a central location near you for general access. Customized training can be organized on demand, focusing on your specific process challenges. You can ask us to come to you to help improve your current workflow and bio-processes or even set-up completely new ones. Please contact us and we will be glad to act as your partner.

## Available training courses

- Basic Cultivation course
- Advanced Cultivation course
- Basic Cell Culture course
- Basic Lucillus® PIMS training
- Advanced Lucillus® PIMS training
- On-Demand Service

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## Americas

**Brasil**

SOTELAB Sociedade Técnica de Laboratório Ltda.  
P: +55 11 38723064  
www.sotelab.com.br

**Chile**

AP Bioprocess SpA  
P: +511 993644693  
www.ap-bioprocess.com

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www.biotekno.com.mx

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**Peru**

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## Europe

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www.abtek.ru

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www.reseabiotec.ch

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**Hungary**

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www.asistec.ie

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www.bionordika.no

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www.aplitechbiolab.com

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www.labobaza.pl

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www.getinge.com

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## Asia

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Applitech Biological Technology Co., Ltd  
P: +86 203 482 1111 (ext. 8216)  
www.applitechpharma.com

**India**

Spinco Biotech Pvt. Ltd.  
P: +91 44 2434 0174  
www.spincootech.com

**Japan**

Sanyo Trading Co., Ltd.  
P: +81 3 3518 1111  
www.sanyo-trading.co.jp

**Korea**

Seoulin Bioscience Co., Ltd.  
P: +82 1670 5911  
www.seoulin.co.kr

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Tseng Hsiang Life Science Ltd.  
P: +86 2 2785 1156  
www.thco.com.tw

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www.zilsci.com

**Thailand**

Meditop Co., Ltd  
P: +66 2933 1133  
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## Middle East & Africa

**Israel**

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www.medent.co.il

**South Africa**

Separations  
P: +27 11 919 1000  
www.separations.co.za

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Getinge is a global provider of innovative solutions for operating rooms, intensive care units, sterilization departments and for life science companies and institutions. Based on our firsthand experience and close partnerships with clinical experts, healthcare professionals and medtech specialists, we are improving everyday life for people – today and tomorrow.

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