

in-Control, simply powerful

in-Control is a process controller for laboratory scale bioreactors. The system is a drop-in-replacement for our older ADI 1010 Bio Controller and ADI 1030 Bio Controller. The in-Control offers high level control on a small footprint. When you are running your bioreactors controlled by our ADI 1010 or ADI 1030 Bio Controllers, the in-Control can be used to increase the capabilities of your bioreactor system with a minimal investment and no downtime for your process. The controller can be used for both cell culture and microbial cultures. The intuitive human interface is a built-in color touch screen.

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.
- Easy operation through touch screen interface and through web browsers (Windows PC, Apple PC, Linux PC, iPhone, iPad, Android tablet, Android phone)
- Enhanced gas addition strategies via up to 4 Mass Flow Controllers
- Expandable control system with optional extra inputs and outputs
- USB connection for optional biomass or fluorophor pH and DO sensors and balances
- Ethernet communication to SCADA

Applications

- Replacement of ADI 1010 Bio Controller and ADI 1030 Bio Controller
- Autoclavable bioreactors up to 20 liter volume
- Single Use Bioreactors
- Microbial and Cell cultivation
- Batch, Fed-Batch, Perfusion and Continuous cultivation



Specifications

Inputs	pH, temperature, dissolved oxygen, agitation, foam and level Optional: biomass and fluorophor pH and fluorophor dissolved oxygen Optional inputs 4 x analog in (0 – 10 V)
Control type	PID control with selectable autotuning adaptive control
Actuators	8 x digital outputs for heating, cooling, fixed speed pump, solenoid valves etc. Up to 4 Mass Flow Controllers or 4 solenoid valves for gas flow control Spare I/O: 4 x analog out (0/4 – 20 mA)
Additional features	Emergency stop connection, central alarm output,
Power	Pmax: 480 VA 230 / 115 Vac
Dimensions (dxwxh)	322 x 312 x 210 mm
Weight (kg)	7.2 kg

