FLOWNAMICS ®

Your Bioprocess Sampling Solution

FLOWWEB™
OPC CONTROLLER

Whether you're networking a single bioreactor system, an entire PD lab, or multiple labs/suites, the **FlowWeb™ OPC Controller** provides a simple solution for improving bioprocess technology and control by expanding PAT options and enhancing existing DCS/SCADA system functionality.

Product Overview

The FlowWeb™ OPC Controller provides innovative data management and a comprehensive, integrated PAT strategy for effective bioprocess management. It works with any OPC-enabled process management system to seamlessly acquire and integrate data from multiple on-line, at-line, and off-line analytical instruments and exports to any OPC-enabled DCS/SCADA system or data historian. OPC communication is web-based and can be established across any network, including the internet. It requires no additional servers and can also remotely control some external devices.

FlowWeb™ OPC Controller Features / Benefits

- Simultaneous on-line monitoring of up to 20 analytical devices (1 device/OPC Controller) via the OPC server

- Facilitates real-time process monitoring and control and implementation of PAT initiatives

- Enables the conversion of your data into information

- Highly flexible system with multiple communication options and interfaces

- Supports OPC Data Access (DA) and (in 2019) OPC Unified Architecture (UA)

- Uses web-based software for smooth integration into existing lab network and SCADA

- Remote access using IP address and web browser

- Exports analytical data into any OPC-enabled DCS/SCADA system or data historian

FlowWeb™ OPC Controller Interfaces

- Advanced Instruments (AI) Osmometers

- Beckman Coulter Vi-CELL XR Cell Viability Analyzer

- Roche Cedex Bio HT Bioprocess Analyzer

- Siemens RAPIDLab 1200 Blood Gas Analyzers (BGA)

- All YSI® Biochemistry Analyzers

Bioprocess Analyzer   BGA   Cell Counter   Biochemistry Analyzer   Osmometer

FlowWeb OPC Controllers

Sample

Communication

FlowWeb OPC Server   DCS/SCADA
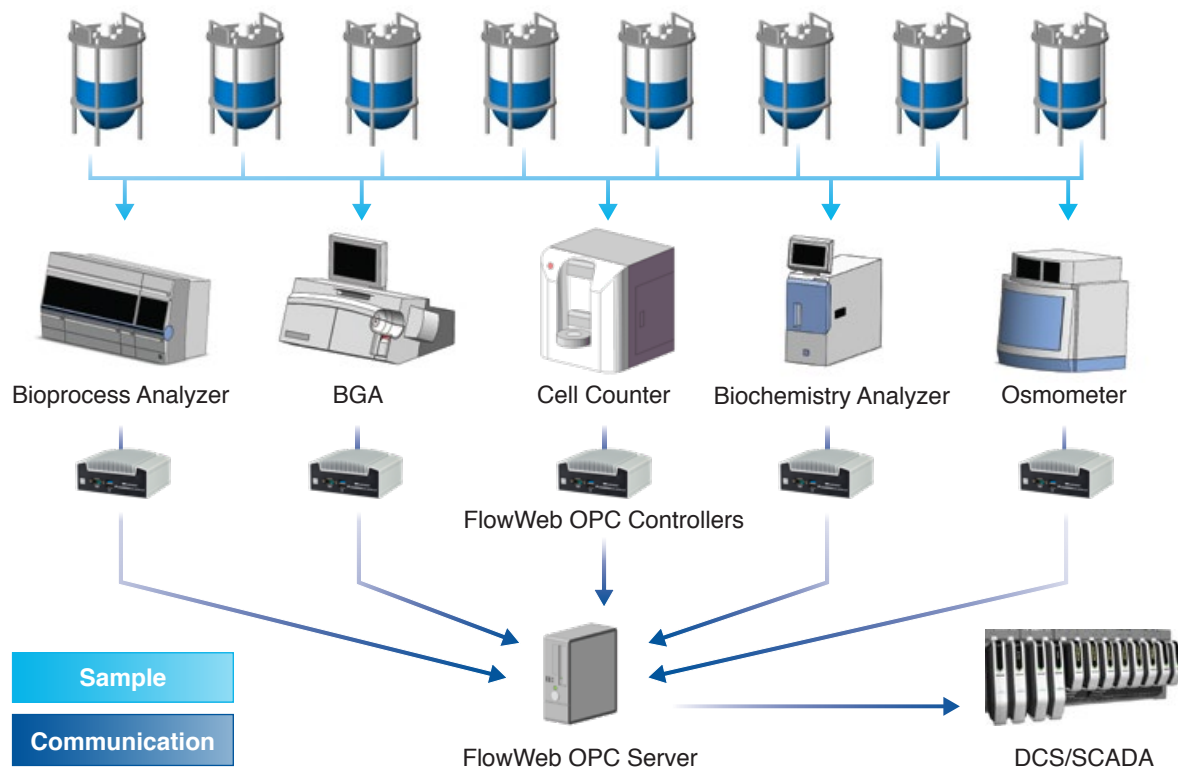
FlowWeb™
OPC SERVER

Product Overview

FlowWeb™ OPC Controller requires FlowWeb™ OPC Server Software, a software application that responds to requests and provides data to one or more OPC clients, which in turn connect to the hardware and send commands to or receives data from the hardware. OPC-enabled systems are implemented in server / client pairs, with one application acting as an OPC client and another as an OPC server. When in an OPC-enabled system, neither application is an OPC client and both are OPC servers, a "thin client" bridge OPC client is used to connect both OPC servers. The "thin client" requests data from one server and immediately sends it to the other OPC server.

FlowWeb™ OPC Server Software is available as a server (used if you are communicating with an OPC client) or with a "thin client" (used if you are communicating with an OPC server).

FlowWeb™ OPC Server Benefits / Features

- Easy configuration
- Supports tag browsing
- Fully compliant OPC DA (Data Access) 1.0 and 2.0
- Permits read and write access to available data points
- Performs extensive error tracking and management
- The software is 21 CFR, part 11 compliant

Windows PC Hardware Required

- Ethernet connectivity
- 512 MB RAM
- 10 MB of available hard disk space
- CD-ROM driver
- Mouse pointing device

Windows OS Supported

- Windows 2000
- Windows XP
- Windows Vista, 32-bit
- Windows 7, 32/64-bit
- Windows 10

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FlowWeb™ OPC Controller Technical Specifications

Hardware Line	Industrial Line
System Cooling	Fanless
Processor	Intel Celeron N2930
Processor Speed	1.83 GHz
Processor Cores	4
Graphics/GPU	Intel HD Graphics
Memory Type	DDR3L SO-DIMM (non-ECC)
Memory Capacity	8 GB
Memory Speed	1333 MHz
Memory Slot Count	1.00
Rear I/O	2 USB 2.0 ports 2 GB LAN port 1 Line-out connector 2 HDMI ports 1 DC-Jack (Terminal Block Power Optional)
Front I/O	1 USB 2.0 port 1 USB 3.0 port 1 RS-232/422/485 COM port Power button
LAN Controller	Intel 82583V PCIe GbE
Input Voltage	9~24 V
Power Input	DC jack
Operating Temperature Range	0 ~ 40°C
Dimensions (WxHxD)	142 x 62 x 107 mm 5.6" x 2.4" x 4.2"
Case Material	Aluminum Extrusion, Steel
Mounting Options	DIN-mount VESA-mount Wall-mount
Regulatory Information	2011/65/EU (RoHS 2 Directive) CE EN 55022 EN 55024 EN 55032 EN 60950-1 FCC 47 CFR Part 15

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