

SEGFLOW® S₃



3265 Sunset Lane, Hatboro, PA 19040
www.sentinelprocess.com
P: 800.345.FLOW F: 888.329.9669



Technical Specifications

Electrical

External Power Supply	Auto-sensing: 100 - 120 VAC / 220 - 240 VAC, 1.5 A (50/60 Hz)
Power Consumption	150 VA
System Requirement	15 VDC, 10 A
Regulatory Compliance	CE, RoHS

System Control

Software	FlowWeb™ web-based software controlled by internal processor
OPC Data Exchange	Optional OPC server package available

External Device Communication Interface

TCP/IP	8 built-in ports
Serial Communication	3 ports: RS-232
Inputs	3 inputs: 0 to 5 VDC DAC
Outputs	16 outputs: 0 to 5 VDC DAC
USB	5 ports (may be used with serial/USB adapter)

Sample Processing

Vessel Inputs	Eight total
Sample Outputs	1 analyzers and/or fraction collectors 4 analyzers and/or fraction collectors with Sample-Mod
Sample Size	1.25 – 50 ml (user defined)
Flow Rate	0.1 – 170 ml/min (user defined)
Sample Cycle	10 - 45 minutes (Typical cycle range) Cycle times vary significantly due to user defined protocols & analytical interfaces
Online Instrument Interfaces	Fraction Collectors, Biochemistry Analyzers, HPLC/UPLC Systems & Cell Counters
Wetted Materials	C-Flex® tubing, Pharmed® tubing, Nylon, Polycarbonate, Silicone, Teflon, PEEK

Physical

Dimensions	Width: 31.75 cm (12.5 in) Height: 50.8 cm (20 in) Depth: 35.6 cm (14.0 in)
Weight (with Touchscreen)	10.52 kg (23.2 lbs)

Flownamics, Inc.

800-932-6989

contact@flownamics.com | www.flownamics.com

SEG-FLOW[®] S₃ The New Generation of Automation

Maximizing Space

Centralized reagents save space and time while allowing multiple cleaning solutions to clean the fluid path.



User-Friendly Interface

With a more graphical interface, monitoring and scheduling are more intuitive for the user. Know where the sampling cycle is and reagent levels with just a glance.

Built-In Tubing Management

Installation is made easier with defined channels that hold the tubing in place.

Lighting The Way

LED lights will change color to match status as the Seg-Flow moves through the sampling cycle.

Letting You Know

Using ultrasonic sensors and smart pinch valves, the Seg-Flow alerts you if there is a blocked or misconnected tubing.

Making Connections

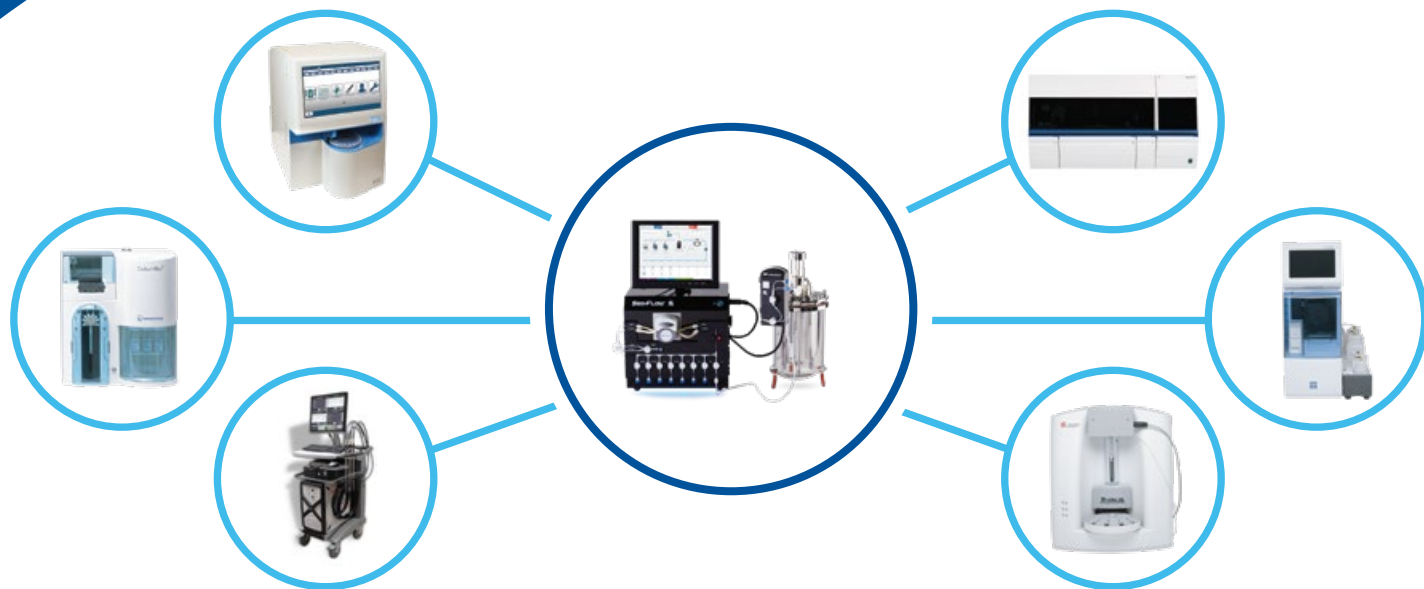
Schedule sampling from 8 different bioreactors on your timetable and have one place for all the data without having to format each time.

Taking Auto Sampling To The Next Level

Here at Flownamics, we understand that time is valuable and resources are limited. The Seg-Flow series is made to simplify the sampling process and data collection so that you can spend your time elsewhere. And with our additional accessory and service options, you can make sure to get the most value from your system so you can focus on your process, not the equipment.

The new S3 brings all the great qualities of the 4800 system with a fresh new look, time saving features, and a robustness that make this system easier to use and maintain. Able to connect to 8 vessels straight out of the box, the new S3 takes automated sampling to the next level.

Instrument Integrations



- Agilent® 1200/1260/1290 Infinity II HPLC
- Beckman-Coulter ViCELL® XR Cell Analyzer
- FlowFraction Fraction Collector 400/500
- Kaiser RamanRxn2™ Multi-Channel Analyzer
- Mettler-Toledo Balances
- Nova® Biomedical BioProfile® FLEX 2 Analyzer
- Roche Cedex Bio HT
- Roche Cedex HiRes Cell Analyzer
- Waters PATROL UPLC
- YSI® 2900/2950 Biochemistry Analyzers
- IDEX TRIDEX™

Accessories



Seg-Mod S3

- Module for minimal sample withdrawal
- Compatible w/any vessel size or design
- Mounts easily on FISP or other in-situ sampling probe
- Scale independent – use with lab, pilot, or production vessels



COMING SOON

Sample-Mod S3

- Delivers samples to four devices
- Enables sample dilution, including serial dilution
- Allows reagent addition for sample preparation
- Single-use fluid path
- Zero dead volume syringe



3265 Sunset Lane, Hatboro, PA 19040

www.sentinelprocess.com

P: 800.345.FLOW F: 888.329.9669