OmniSIA

The Multi-Analysis Instrument

The OmniSIA is our most flexible instrument, performing analyses in both SIA (sequential injection analysis) and FIA (flow injection analysis) formats. With a multi-position valve, high resolution micro-syringe pump, and 4-channel peristaltic pump, this unit is ideal for developing new FIA or SIA methods and testing new sensor technologies. It is also suitable for:

- Gas diffusion
- Dialysis
- Low pressure column separations
- Exploration of chemical reactions

The OmniSIA integrates smoothly with other peripheral analytical instruments. These include autosamplers, additional pumps, selector/injector valves, and FIAlab's PMT (photomultiplier tube). Detector methods include UV-vis spectrophotometry, fluorescence, and chemiluminescence.

The OmniSIA is controlled through our intuitive and dynamic software, SIAsoft. It allows users to execute preloaded methods or their own with custom Python scripts.

FIAlab

Leaders in Flow Injection Technology

Ask us for a free instrument demonstration.
We'll visit you!

OmniSIA Specificatons

Analyzer	
Type	Sequential Injection Analyzer
Enclosure Material	Aluminum (powder-coated/anodized)
Syringe Pumps	
Type	XLP6000 high-precision syringe pump
Wetted Materials	Glass, Teflon®, PCTFE
Syringe Sizes	50, 100, 250, 500 uL and 1.0, 2.5, 5.0, 10, 25, 50 mL
Resolution	48,000 steps per full stroke
Speed	1.2s – 160 min per full stroke
Peristaltic Pump	
Type	4-channel peristaltic, common pressure plate
Materials	Aluminum, Stainless Steel
Tubing Type	2-stop elastic tubing
Flow Rate	0.30-2.80 mL/min per channel with 0.76 mm ID tubing 0.50-5.0 mL/min per channel with 1.02 mm ID tubing
Valve	
Type	8-port multi-position selector valve. 6-port and 10-port also available. Optional Lab-on-Valve® manifold - Ultem® or Plexiglas.
Wetted Materials	PPS, Valcon E2, Ultem®, Plexiglas, Ultem®
Port Type	Flat-bottom ¼ - 28
Relay Output	
Voltage	24 V
Current	Max 4 mA
Dimensions	
Height	31cm / 12 in
Width	29 cm / 11.4 in
Depth	26 cm / 10.2 in
Weight	11 kg / 24 lb
Communication	
Type	USB
Output	RS-485
Control Options	SIAsoft – FIAlab's proprietary software
Power Requirements	
Voltage	24 V DC
Current	Max 3.75 A

Contact Us

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