ProSIA

Dual Pump Sequential Injection Analyzer

The ProSIA is a dual-syringe SIA instrument. These pumps, as well as the peristaltic pump, can be independently controlled making this instrument ideal for intricate assays in research and development. The assays best suited for this unit are:

- Gas diffusion
- Gradient generation used for automated titration
- Separation of analytes from matrix by means of sorbent extraction

The advantages of a dual syringe system:

- Programmable gradients can be created with simultaneous and independent syringe control for direction, flow rate, and volume.
- Auto-diluting high concentration samples is made easy.
- Seamless, uninterrupted flow can be achieved with the two pumps. As one fills, the other empties.

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

ProSIA Specificatons

Analyzer	
Type	Sequential Injection Analyzer
Enclosure Material	Aluminum (powder-coated/anodized)
Syringe Pumps	
Type	XCalibur high-precision syringe pump
Wetted Materials	Glass, Teflon®, PCTFE
Syringe Sizes	50, 100, 250, 500 uL and 1.0, 2.5, 5.0 mL
Resolution	24,000 steps per full stroke
Speed	1.2s – 20 min per full stroke
Peristaltic Pump	
Type	2-channel peristaltic, common pressure plate
Materials	Delrin, Stainless Steel
Tubing Type	Elastic tubing with 1 mm wall thickness
Flow Rate	0.5-2.0 mL.min per channel with 1 mm ID tubing 2.0-8.0 mL/min per channel with 2 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
Port Type	Flat-bottom ¼ - 28
Relay Output	
Voltage	24 V
Current	Max 4 mA
Dimensions	
Height	31cm / 13.5 in
Width	16 cm / 7 in
Depth	29 cm / 11.5 in
Weight	8 kg / 17 lb
Communication	
Type	USB
Control Options	SIAsoft – FIAlab's proprietary software
Power Requirements	
Voltage	24 V DC
Current	Max 2.5 A

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