

BioFusion S300 Series

S300/S300 Neo/S300 Ex/S300 Pro

Syringe Pump



Physical Specifications (S300/S300 Neo/S300 Ex/S300 Pro)

Size	260mm×160mm×75mm (L×W×H)
Weight	≤1.80kg
Screen	3.5 inch Color TFT LCD capacitive touchscreen
Resolution	800×480 pixels
Brightness	1-10 levels adjustable
Display	Patient information, Alarm information Infusion status, system status
Ingress protection	IP33

Parameters Specifications

Accuracy	±0.5%	
	Flow rate error ≤±2%	
	Bolus volume error ≤±2%, or ±0.05ml (whichever is the greater)	
	KVO error ≤±2%	
Flow rate	1ml syringe	(0.01~50.00)ml/h
	2ml or 3ml syringe	(0.10~150.0)ml/h
	5ml syringe	(0.10~300.0)ml/h
	10ml syringe	(0.10~800.0)ml/h
	20ml syringe	(0.10~1200)ml/h
	30ml syringe	(0.10~1500)ml/h
	50ml syringe	(0.10~2350)ml/h
	Flow rate setup Increment	
	(0.01~99.99)ml/h increment 0.01ml/h	
	(100.0~999.9)ml/h increment 0.1ml/h	
Bolus rate (Automatic or Manual)	1ml syringe	(0.01~50.00)ml/h
	2ml or 3ml syringe	(0.10~150.0)ml/h
	5ml syringe	(0.10~300.0)ml/h
	10ml syringe	(0.10~800.0)ml/h
	20ml syringe	(0.10~1200)ml/h
	30ml syringe	(0.10~1500)ml/h
	50ml syringe	(0.10~2350)ml/h
	Bolus rate setup Increment	
	(0.01~99.99)ml/h increment 0.01ml/h	
	(100.0~999.9)ml/h increment 0.1ml/h	
Occlusion detection	15 levels selectable, (respectively are 50, 150, 225, 300, 375, 450, 525, 600, 675, 750, 825, 900, 975, 1050, 1125mmHg).	
	Occlusion alarm error: First level: 50 ⁺¹⁷⁰ / ₋₄₅ mmHg Other levels: ≤±145mmHg or ±20% (Whichever is the greater)	
KVO flow rate	1ml syringe (0.01~5.00)ml/h other syringe sizes (0.10~5.00)ml/h Increment 0.01ml/h	
Time setting range	00:00:01~99:59:59 (h:min:sec), Increment 1s	
Preset volume (VTBI)	0.10~9999.99ml, increment 0.01ml/h	
Accumulated volume	0.00~99999.99ml, increment 0.01ml/h	
Weight setting	Setup range 0.1~499.0kg Units: kg, lb	
Dosage	Setup range 0.001~99999 Units: ng, ug, mg, g, mU, U, kU, EU, mmol, mol, mcal, cal, kcal, mEq.	

Dose rate	Setup range: 0.001~99999 Units: X/min, X/h, X/24h, X/kg/h, X/kg/24h, X/lb/min, X/lb/h, X/lb/24h, X can represent the units of ng, ug, mg, g, mU, U, kU, EU, mmol, mol, mcal, cal, kcal, mEq.	
Volume range	Setup range 0.10~9999.99ml	
Concentration	Setup range 0.001~9999.99 Units: ng/ml, ug/ml, mg/ml, g/ml, mU/ml, U/ml, KU/ml, EU/ml, mmol/ml, mol/ml, mcal/ml, cal/ml, kcal/ml, mEq/ml	
Patient history data	S300	More than 5000 events
	S300 Neo	More than 6000 events
	S300 Ex	More than 8000 events
	S300 Pro	More than 10000 events

Drug management (option)

Drug library	Supports a customizable drug library of up to 5000 drug profiles, 30 categories, 20 types color-coding drug names. (No default drug list is preloaded)
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Auto lock Protection

Screen lock protection	Non-infusion state: Default 3 min. 1min, 2min, 3min, 4min, 5min, and off selectable.
	Infusion state: Default 30s. 15s, 30s, 1min, 2min, 3min, 4min, 5min, and off selectable.

Syringes

Compatibility	1ml, 2ml, 3ml, 5ml, 10ml, 20ml, 30ml, 50ml automatic recognition of syringe size
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Alarm

Type	Audible and visual alarm
3 levels	High: Occlusion/ Syringe Empty/ Syringe Disengaged/ Plunger Grippers Error/Extension Tube Disconnected/ Relay Invalid/ Battery Depleted/ VTBI Complete/ KVO Finish/ Relay Invalid/ System Error/ No Syringe
	Middle: Near Occlusion/ CMS Disconnected/
	Low: Syringe Near Empty/VTBI Near Complete/ KVO Running/ No Battery/ Battery Error/ No External Power Supply/ Low Battery/ Standby Time Expired/ Dock Connection Interrupted/ System Time Error/ Relay Invalid Soon/ Reminder
Reminder setting	Non-operation state: Default 2min. 1 min, 2min, 3min, 4min, 5min, and off selectable.

Sound volume	0-10 levels selectable, default is level 2
	0-30 minutes selectable

Connectivity

Communication	Wired/Wireless
USB	Support drug library import, patient data import/ export, history record export, calibration data import/export
Multifunctional adapter	RS232, nurse call connector, DC adapter

Integration	Connect with BioFusion infusion central station Connect with P & G series patient monitor Connect with UM series urine monitor	Work Environment	
		Temperature	5-40°C for operating, -20-60 °C for storage
Working Mode	Rate mode, Time mode, Micro mode, Weight mode, Sequence mode, Loading dose mode, Intermittent mode, Ramp mode, Dose time mode, TIVA mode	Relative humidity	15-95% for operating, 10-95% for storage
		Atmosphere pressure	57.0-107.4 kPa for operating, 16.0-107.4 kPa for storage
Battery		Classification	Class I, Type CF
Type	Lithium battery, 11.1VDC, 3100mAh	Stackability	Supported with Infusion Supervision System and Handle. Maximum of 12 pumps can be stacked with a Infusion Supervision System Maximum of 3 pumps can be stacked with a handle
Operating time	≥ 8 hours at 5.00ml/h Under standard operating conditions		
Shutdown delay	At least 30min at a rate of 5.00ml/h after the first low battery alarm		
Power Supply	Voltage 100-240 V~, frequency 50/60Hz, current 0.43-0.22A		

*Specifications subject to change without prior notice.

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