

Type: SEP-501

## Digital Syringe Pump with LCD Display



The SEP-501 represent a new generation of syringe pumps and offers the high quality, safe and precise delivery. Thank the automatic syringe calibration allows simple and flexible operation.

## Features

- Suitable for use in ICU
- Automatic syringe calibration, compatible for all syringe brands
- Invention patent technology, ensuring the injection accuracy for all brands of syringes
- Calibrated accuracy, ensuring high accuracy during the whole life cycle of the pump
- Identify 10/20/30/50mL syringe size automatically
- Clear indication of working status, Syringe status indicator Indicate the syringe installation and injection status clearly
- Many safety designs to ensure safety and accuracy
- 12 kinds of optic and sound alarm
- Operable slider hook, convenient to clamp syringe plunger
- Multi-direction clamp, can be fixed on horizontal and vertical pole
- Mechanical accuracy 1%
- Powerful Battery capable to support more than 6 hours for one channel continuous operation
- Anti-slippery foot pad
- Easy operation
- CE certified

## Specifications



SPECIFICATION (Single Channel)		
Syringes	10, 20, 30, 50 mL of calibrated syringes	
Flow rate	0.1~1500 mL/h (specified value 0.1 999.9 mL/h, 0.1 mL/h step)	50 mL syringe
	0.1~900 mL/h (0.1 mL/h step)	30 mL syringe
	0.1~600 mL/h (0.1 mL/h step)	20 mL syringe
	0.1~400 mL/h (0.1 mL/h step)	10 mL syringe
Purge rate	1500 mL/h	50 mL syringe
	900 mL/h	30 mL syringe
	600 mL/h	20 mL syringe
	400 mL/h	10 mL syringe
Accuracy of flow rate (Nominal value)	Accuracy including syringe: within $\pm 2\%$ Mechanical accuracy: within $\pm 1\%$	
Display range of volume delivered	0.1~9999 mL (0.1~999.9 mL, 0.1 mL step) (1000~9999 mL, 1 mL step)	
Setting of delivery limit	0.1~9999 mL (0.1~999.9 mL, 0.1 mL step) (1000~9999 mL, 1 mL step)	
Occlusion detection pressure	'H': $800 \pm 200$ mmHg ( $106.7 \pm 26.7$ kPa) or $1.09 \pm 0.27$ kgf/cm <sup>2</sup> 'C': $500 \pm 100$ mmHg ( $66.7 \pm 13.3$ kPa) or $0.68 \pm 0.13$ kgf/cm <sup>2</sup> 'L': $300 \pm 100$ mmHg ( $40.7 \pm 13.3$ kPa) or $0.41 \pm 0.13$ kgf/cm <sup>2</sup>	
Alarms	'Occlusion', 'Nearly empty', 'Finish', 'Syringe dislocated', 'Plunger/Clutch disengaged', 'Battery low', 'Battery exhausted', 'Power cable disconnected', 'Flow rate over limit', 'Volume over limit', 'System error', 'Non-operation time over'	
Power	AC110~220V $\pm 10\%$ , 50~60 Hz $\pm 1$ Hz Inner NiMH battery: DC12 V Continuous operation time of battery: over 4 hours for dual channel when battery is recharged for 12 hours, at flow rate of 5 mL/h.	
Operation conditions	Ambient temperature: 5 to 40 °C, Relative humidity: 20% to 80%	
Storage conditions	Ambient temperature: -40 to 55 °C, Relative humidity: $\leq 95\%$	
Electric shock protection/class	Class I and internal power supply: Type CF, Continuous operation	
Water proof level	IPX4	
Weight	2.25kg (with clamp base)	
Dimension	306mm (Width)×135mm (Height)×127mm (Depth)	

Function	
Calibrate syringe automatically	Fast rate control
Identify syringe size automatically	"Purge" button activate safe protection
3-level occlusion alarm limits setting	Flow rate setting button lock
Automatically reduce impact dose release after occlusion	Abundant optic and sound alarm
Limits setting	AC and internal power indication
Delivered volume inquiry	Standard RS232 interface
KVO flow rate	1000 history records



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