

## FEATURES

- Easy to use, microprocessor controlled
- Wide range of Syringe selection : 10ml, 20ml, 30ml & 50/60ml
- Automatic identification of syringe size loaded
- Syringe calibration function allowing any brand of syringe to be used just ensuring high accuracy at effective cost
- Syringe status indicator
- Convenient front loading system allowing easy access to clamp syringe plunger
- Upto 3 levels of Adjustable occlusion pressure
- Powerful battery to support continuous use of more than 6 hrs



# SYRINGE INFUSION PUMP

SP 101

## TECHNICAL INFORMATION

Syringes	10, 20, 30, 50 mL of calibrated syringes 0.1~1500 mL/h (specified value 0.1 999.9 mL/h, 0.1 mL/h step) (specified value 1000 mL/h or above, 1mL/h step)	50 mL syringe
Flow rate	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
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±200 mm Hg (106.7±6.7 kPa) or 1.09±0.27 kgf/cm2 'C': 500±100 mm Hg (66.7±13.3 kPa) or 0.68±0.13 kgf/cm2 'L': 300±100 mmHg (40.7±13.3 kPa) or 0.41±0.13 kgf/cm2	
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 ±10%, 50-60 Hz ±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: 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)	

## FUNCTIONS

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

\*Specifications, design and /or accessories listed in the catalogue subject to change without prior notice

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