

## SEP-501T/TR

## Digital Syringe Pump

Easy to use, high quality syringe pump



## Features

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.

## Accurate

Calibrating automatically, compatible with all brands of syringes

## Smart

With built-in wireless communication module, provides smart networking and management function (SEP-501TR)

## Secure

Dual-CPU monitoring, more secure

## Powerful

Support speed mode, drip mode, body weight mode, time mode and Drug Library mode



## Specifications

SPECIFICATION(Single-Channel, Body Weight Mode)		
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
	(specified value 1000 mL/h or above, 1mL/h step)	
	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
Purge rate	0.1~ 400 mL/h (0.1 mL/h step)	10 mL syringe
	0.1~1500 mL/h	50 mL syringe
	0.1~900 mL/h	30 mL syringe
	0.1~600 mL/h	20 mL syringe
Infusion Mode	0.1~400 mL/h	10 mL syringe
	Speed mode,Body Weight mode,Time mode,Drug Library mode	
	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	AC110~230V $\pm 10\%$ , 50/60 Hz $\pm 1$ Hz	
	Inner NiMH battery: DC12 V	
	Continuous operation time of battery: over 6 hours for one 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: -20 to 55 °C, Relative humidity: $\leq 95\%$	
Electric shock protection/class	Class I and internal power supply: Type CF, Continuous operation	
Power consumption	Approximately 10 W	
Protection class	2, CF, IPX4	
Language	English, Russian, Chinese	
Working mode	Infusion plan mode, body weight mode, rate mode	
Weight	2.25kg (with clamp base)	
Dimension	306mm (Width)×135mm (Height)×127mm (Depth)	

## Function

Adjustable alarm sound	Adjustable button sound	Operation error prompt
Calibrating syringe automatically	Easy installation of syringe	Fast rate control
Identifying syringe size automatically	Dual-CPU control	"Purge" button activate safe protection
3-level occlusion alarm limits setting	Vehicle power supply interface	Flow rate setting button lock
Limits setting	Drug library	Abundant optic and sound alarm
Delivered volume inquiry	Self-testing when start up	AC and internal power indication
KVO flow rate(0.1-1.0ml/h Adjustable)	LCD screen	Standard RS232 interface
Automatically reducing impact dose release after occlusion	Automatically switch to battery when circuit failure	1000 history records
Multi-direction clamp for either horizontal or vertical fixation	Automatic charging when connect to the circuit	



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