

SEP-502

Dual Channel Digital Syringe Pump

CE



The SEP-502 represent a new generation of dual-channel syringe pumps and offers the high quality, safe and precise delivery. Thank the automatic syringe calibration allows simple and flexible operation.

Features

- Dual channel, 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 (Dual 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 (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 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 ² 'C': 500 \pm 100 mmHg (66.7 \pm 13.3 kPa) or 0.68 \pm 0.13 kgf/cm ² 'L': 300 \pm 100 mmHg (40.7 \pm 13.3 kPa) or 0.41 \pm 0.13 kgf/cm ²
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 ± 1 Hz Inner NiMH battery: DC12 V Continuous operation time of battery: over 6 hours for one channel, 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	3.45kg (with clamp base)
Dimension	354mm (Width) \times 190mm (Height) \times 128mm (Depth)

Function

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



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