



***STERNMED***<sup>®</sup>



**IPN 56**

Infusion pump



[www.sternmed.de](http://www.sternmed.de)



## IPN 56

Infusion pump

The IPN 56 is an infusion pump with horizontal design, which effectively prevents drug liquid leakage into the pump.

The device is equipped with a dual CPU monitoring function which ensures the safety of the patient. Different audible and visual alarms integrated to the pump give a better control and observation of the patient.

## SPECIFICATIONS

- Flow rate 0.1~1500 mL/h
- Bolus rate 600~1000 mL/h
- KVO rate 0.1~5 mL/h, adjustable
- Ultrasonic Bubble detector with detection sensitivity of 25µl
- Infusion history 15000 records
- Preset volume 1~9999 mL
- Display range of totally delivered volume 0~9999 mL
- Power AC 110~230V, 50~60 Hz
- Inner battery: DC 12V, 2300Mah
- 5 hours battery operation at the rate of 25mL/h
- IPX4 Water proof level
- Wireless communication
- Infusion mode setting Rate mode, drip mode, weight and time mode
- 3 mode Infusion rates: Drip/min, mL/h, time/volume

## ALARMS

- Finish infusion
- Occlusion
- Bubble
- Door open
- Power Supply Breakdown
- Battery low
- Battery exhausted
- No Operation
- System error
- Not-calibration
- KVO complete
- Drip sensor abnormal



## POWERFUL FEATURES

- Tube heating option
- Dual-CPU monitoring function
- Abundant optic and sound alarm
- Body-weight mode conversion
- Pressure dynamic display
- Multi-direction clamp for either horizontal or vertical fixation
- 3-level occlusion alarm limits
- Ultrasonic bubble detection
- Infusion apparatus calibration
- Nurse call interface
- KVO function
- Wireless communication function
- Night mode lighting
- Smart pulsation compensation function
- Detection of drip sensor
- Fast rate control
- External DC power interface
- AC and internal power indication
- Standard RS232 interface
- 1500 history records
- Waterproof

## TECHNICAL SPECIFICATIONS

### IPN 56 | SternMed Infusion pump

Flow rate	0.1~1500 mL/h (0.1 mL/h step, if the value is 100 mL/h or above, the step is 1mL/h)
Bolus rate	600~1000 mL/h (Adjustable)
KVO rate	0.1~5 mL/h (Adjustable)
Occlusion accuracy	'H': 900±200 mmHg (120.7+ kPa) 'C': 500±100 mmHg (66.7+13.3 kPa) 'L': 100±50 mmHg (13.3+ 6.6 kPa)
Accuracy of infusion	<+5% (<+3% for calibrated infusion apparatus)
Bubble detector	Ultrasonic detection method, detection sensitivity: 25µl
Infusion history records	1500 pcs
Preset volume	1~9999 mL
Display range of totally delivered volume	0~9999 mL(0.1mL step, if the value is above 100 ML, the step is 1 mL)
Alarms	'Finish infusion', 'Occlusion', 'Bubble', 'Door open', 'Power Supply Breakdown', 'Battery low', 'Battery exhausted', 'No Operation', 'System error', 'Not-calibration', 'KVO complete', 'Drip sensor abnormal'
Power	AC110~230V, 50~60 Hz, Inner battery: DC12V, 2300Mah In fully charged status, the device can working for more than 6 hours at the rate of 25mL/h (containing the time of battery low. Larger battery volume is optional) Outside DC power supply: DC 12V
Operation conditions	Ambient temperature: +5~+40 °C, Relative humidity: 20% to 90%, Ambient pressure: 86~106kPa
Storage conditions	Ambient temperature: -20 to +55 °C, Relative humidity: <95%
Electric shock protection/class	Class I and internal power supply: Type CF, Continuous operation
Water proof level	IPX4
Communication (Option)	(1) Cable- Serial RS232 (2) Wireless communication – zigbee
Infusion mode setting	Rate mode, drip mode, weight and time mode, two groups of infusion program can be set under 'rate mode' and 'drip mode'.
Infusion rate	3 mode: Drip/min, mL/h, time/volume
Weight	2.5kg (with clamp base)
Dimension	308mm (width) x 140mm (Height) x 144mm (Depth)
Infusion apparatus	Can save 9 brands of infusion apparatus, the infusion accuracy can reach + 3% after calibration.
Scope of application	With pressure generated by the infusion pump to control the injected flow rate and delivery volume of liquid (medicine, intravenous nutrition) to the patient
Contraindications	This product is not available for blood transfusion



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