

Feel you, Assist you

AP-30 Syringe Pump



Medication Usage
Assistant

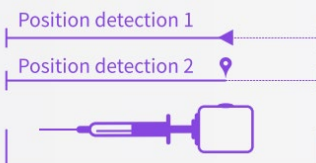
Efficiency Boosting
Assistant

Safe Delivery
Assistant

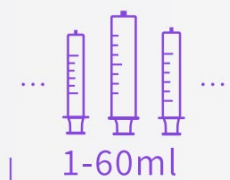
Built-in
DoseControl

Information
Management
Assistant

- Built-in DoseControl function, a professional drug library solution
- 7.0 inch capacitive touch screen
- Customized display, Detail view and Virtual view
- Automatic syringe loading, reduce loading steps and improve work efficiency



Unique double position detection system



Full-range syringe compatibility



Ingress Protection by IP44

Specifications

Dimension	270 mm × 73.5 mm × 150 mm (W x H x D)
Weight	< 1.7kg (including battery)
Classification	Defibrillation proof type CF, IP44
Compatible syringe	Various brands of 1ml, 2ml, 3ml, 5ml, 10ml, 20/30ml, 50/60ml syringes compliant with ISO 7886-1 and ISO 7886-2
Screen	7.0 inch capacitive touchscreen, brightness 10 levels adjustable, Auto-Brightness supported

Basic Parameter

Infusion mode	Rate mode, Weight mode, Time mode, Micro mode, Sequence mode, Loading Dose mode, Trapezia mode, Intermittent mode, Chronological mode, Combination mode, PCA mode (optional), PCEA mode (optional), PCS mode (optional), PIEB mode (optional), TIVA mode, TCI mode (optional), and Feed mode	
Infusion rate range	0.01-50.00 ml/h (1ml syringe) 0.01-300.0ml/h (5ml syringe) 0.10-1200ml/h (20ml syringe) 0.10-2500.0ml/h(50/60ml syringe)	0.01-150.00ml/h (2/3ml syringe) 0.10-800.0ml/h (10/12ml syringe) 0.10-1800.0ml/h(30ml syringe)
Minimum increment of infusion rate	0.01-99.99ml/h (minimum increment 0.01ml/h) 100.0-999.9ml/h (minimum increment 0.1ml/h) 1000-2500ml/h (minimum increment 1ml/h)	
VTBI range	0.01~9999.99ml (minimum increment: 0.01ml)	
Preset time	00:00:01~99:59:59 (minimum increment: 1s)	
Total volume display	0.00~99999.99ml (minimum increment: 0.01ml)	
Accuracy	Infusion accuracy $\leq \pm 1.7\%$ Mechanical accuracy $\leq \pm 0.5\%$	
KVO rate	0.10~5.00ml/h (minimum increment: 0.01ml/h) Adaptive KVO available, can adjust KVO rate according to the infusion rate	
Bolus & Purge rate	0.01-50.00 ml/h (1ml syringe) 0.01-300.0ml/h (5ml syringe) 0.10-1200ml/h (20ml syringe) 0.10-2500.0ml/h(50/60ml syringe)	0.01-150.00ml/h (2/3ml syringe) 0.10-800.0ml/h (10/12ml syringe) 0.10-1800.0ml/h(30ml syringe)
Bolus VTBI	0.10-1.0 ml (1ml syringe) 0.10-3.0ml (3ml syringe) 0.10-10.0ml (10/12ml syringe) 0.10-30.0ml(30ml syringe) Minimum increment for all: 0.01ml	0.10-2.0ml (2ml syringe) 0.10-5.0ml (5ml syringe) 0.10-20.0ml (20ml syringe) 0.10-50.0ml (50/60ml syringe)
4 bolus ways selectable	Automatic/Manual/Semi-Auto/Last bolus	
Occlusion level	1ml syringe: 975mmHg. 2ml, 3ml, 5ml, 10/12ml, 20ml, or 30ml syringe: 0~1200mmHg, 16 levels are available for selection 50/60ml syringe: 0~975mmHg, 13 levels are available for selection	

Alarm

Visual & acoustic alarm

Patient-side OCCL, BAT Empty, Infusion End, KVO End, Relay Failed, Syringe Empty, Syringe Installation ERR, Holder ERR, Syringe Claw ERR, Drive Head ERR, Drive Head Position ERR, Pre OCCL, Tube Off, Relay Fail Soon, Overheating, Reminder Alarm, Station Comm. Error, Monitor Comm. Error, No AC Power, No Battery, Syringe Near Empty, Infusion End KVO Start, No Heater, PCA Controller Removed, Dose Limit Exceeded

Power supply

AC power	100 -240 V AC, 50/60 Hz, power consumption 45 VA
External DC power	10 - 15.1 V, 3 - 1.88 A
Internal battery	Lithium battery 10.8 V, 3000mAh
Battery duration	15 hours @5ml/h with a new battery 13 hours @125ml/h with a new battery
Charging time	No longer than 4 hours (the pump is powered off during the charge)

Special function

Rate change in infusion	Infusion rate can be changed anytime during infusion, no need to stop the infusion
Relay function	Continuous infusion among multiple pumps, guarantee non-stop therapies for sensitive drugs. Support single drug relay and multi drug relay
Drug library DoseControl mode	Built-in drug library with Dose error reduction system Support maximum 40 profiles (clinical care area) and 12000 drugs Maximum 1000 drugs in every profile (clinical care area) Programmable drug library information and pump configuration
Screen lock	Both Manual screen lock and Auto screen lock are available
Screen display	Infusion parameters shown on the screen can be customized The virtual syringe view is supported to illustrate the running infusion process.
Anti-Bolus	Anti-Bolus function available, unintended bolus $\leq 0.1\text{ml}$
Auto-Restart	Pump will auto-restart when occlusion is released
Repeat alarming	Alarm sounds again in 2 minutes if there is still alarm after alarm is muted
Event recording	Maximum 10000 events can be stored for review
Sound Volume	10 levels selectable
Syringe installation	Auto Installation
Touch sense (Optional)	The pump gives vibration response to taps on the screen (optional)
Lumin sense (Optional)	Enable brightness sensing
Ambulance	EN1789

Connectivity

WiFi / Wired	To connect central infusion monitoring system, nurse caller
Barcode scanning	Patient information input by barcode scanner
Data interface	Supported USB 3.0, IrDA port, Bluetooth(Optional), Wi-Fi(Optional), Port Hub (optional) , Aviation Connector
Protocol	HL7

Mounting

Inside docking station	Supported
Between pumps	Stackable between any AP series syringe / infusion pumps produced by Medcaptain
Built-in Handle	Available
Pole clamp direction	Can be mounted at different directions, 90°/180°/270°/360°

Safe requirement

Operating conditions	Temperature: 5°C to 40°C Humidity: 15% to 95% RH, non-condensing Pressure altitude: 57.0 kPa – 106.0 kPa
Storage conditions	Temperature: -20°C to +55°C Humidity: 10% to 95% RH, non-condensing Pressure altitude: 22.0 kPa – 107.4 kPa



MEDCAPTAIN MEDICAL TECHNOLOGY CO., LTD.



 Add: 12th Floor, Baiwang Research Building, No.5158 Shahe West Road, Xili, Nanshan, 518055 Shenzhen, Guangdong, PEOPLE'S REPUBLIC OF CHINA

Tel: +86 755 26953369

E-mail: info@medcaptain.com

Fax: +86 755 26001651

Website: www.medcaptain.com

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