

Feel you, Assist you

AP-60 Infusion 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
- Real-time detection and guidance for infusion set loading



Blood transfusion certified



Self-adapting peristaltic System

1STEP

One step IV set installation

0.2ml
Anti-bolus

Anti-bolus system

Specifications

Dimension	215 x 73 x 145mm （W x H x D）
Weight	< 1.7kg (including battery)
Classification	Defibrillation proof type CF, IP44
Compatible consumable	All disposable IV sets conforming to ISO 8536-4 and ISO 8536-8 standards
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, Drip mode, PCA mode (optional), PCEA mode (optional), PCS mode (optional), PIEB mode (optional), TIVA mode, TCI mode (optional), Feed mode, and Piggyback mode
Infusion rate range	0.10-2500.0 ml/h (20d/ml IV set)
Minimum increment of infusion rate	0.10-99.99ml/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	0.10~9999.99ml (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	≤±4.4% (tested with a B. Braun infusion set based on IEC 60601-2-24, 2012); ≤±5% (tested based on IEC 60601-2-24, 2012)
KVO rate	0.10-30.00ml/h (minimum increment: 0.01ml/h) Adaptive KVO available, can adjust KVO rate according to the infusion rate
Bolus & Purge rate	0.10-2500ml/h
Bolus VTBI	0.10-999.90ml (minimum increment: 0.01ml)
4 bolus ways selectable	Automatic/Manual/Semi-Auto/Last bolus
Occlusion level	Patient side occlusion: 50~1125mmHg, 15 levels are available for selection Fluid side occlusion alarm is supported
Single Bubble detection	Air bubble alarm accuracy: ±10μl or ±20% (whichever is greater) Bubble Level:15, 50, 100, 200, 300, 500, and 800 (μl)
Total Bubble detection	Bubble Level: 100μl/15min, 200μl/15min, 400μl/15min, 500μl/15min, 600μl/15min, 800μl/15min, and 1000μl/15min

Alarm

Visual & acoustic alarm

Patient-side OCCL, Fluid side OCCL, BAT Empty, Infusion End, KVO End, Relay Failed, Air Bubble In Line, Total Bubble Limit Exceeded, Too Many Drops, Too Few Drops, No Drop, Empty, Tube Installation Error, Pre OCCL, No Drop Sensor, Relay Fail Soon, Overheating, Underheating, BAT Low, Reminder Alarm, Station Comm. Error, Monitor Comm. Error, No AC Power, No Battery, Infusion Near End, 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 @25ml/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

Blood transfusion	Can be used for blood transfusion (with transfusion sets)
Enteral nutrition	Can be used for enteral nutrition (with enteral giving sets)
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	Built-in drug library with Dose error reduction system
DoseControl mode	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
Anti-Bolus	Anti-Bolus function available, unintended bolus ≤ 0.2 ml
Auto-Restart	Pump will auto-restart when occlusion is released
Empty bag detection	There will be “Empty” alarm when infusion bag is empty
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
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
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



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AP-60 Datasheet-4P-Version 1.1-EN

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