

Anesthetist's Best Partner

HP TCI Syringe Pump



TIVA • TCI
Inside

Advanced TCI function is offering a great anesthesia solution

- Clear visibility on important information with medical grade large screen
- Easy operation with 3.0 inch touchscreen
- Accurate concentration is controlled by reliable algorithm
- Extra bolus delivery is available during the TCI
- Max flow rate: 2000mL/h

Overview of Possible Selections

Drug	Model	Plasma	Effect side
Propofol	Marsh	√	×
	Schnider	√	√
	Kataria (Optional)	√	×
	Paedfusor (Optional)	√	×
	Eleveld (Optional)	√	√
Dexmedetomidine	Dyck (Optional)	√	×
Remifentanyl	Minto	√	√
Sufentanyl	Gepts (Optional)	√	√
Alfentanyl	Maitre (Optional)	√	√
Fentanyl	Shafer (Optional)	√	√

Specifications

Dimension:	258 × 75 × 152mm (WxHxD)
Weight	1.7kg including battery
Screen	3.0 inch LCD touch screen, brightness 10 level adjustable
Classification	Type CF, Class I, IP33
Compatible syringe	Various brands of 2ml, 3ml, 5ml, 10ml, 20/30ml, 50/60ml syringes compliant with national standards
Standard accessories	Power cord, Handle, Pole clamp
Optional accessories	PCA controller, Nurse caller, Barcode scanner

Basic parameter

Infusion mode	Rate Mode, Time Mode, Weight Mode, Sequence Mode, Trapezia Mode, Micro Mode, LoadingDose Mode, TIVA Mode, TCI Mode and PCA Mode(Optional)	
Infusion rate range	0.10-60.00 (ml/h) (2ml syringe size)	0.10-90.00 (ml/h) (3ml syringe size)
	0.10-150.0 (ml/h) (5ml syringe size)	0.10-300.0 (ml/h) (10ml syringe size)
	0.10-600.0 (ml/h) (20ml syringe size)	0.10-900.0 (ml/h) (30ml syringe size)
	0.10-2000.0 (ml/h) (50/60ml syringe size)	
Increment	0.01-99.99ml/h (increments 0.01ml/h)	100-999.9ml/h (increments 0.1ml/h)
	1000-2000ml/h (increments 1ml/h)	
VTBI range	0.1-9999.99ml	
Preset time	00:00:01-99:59:59 (increments 1s)	
Accumulated volume	0.0-99999.99ml	
Accuracy	≤ ±2%	
KVO rate	0.1-5ml/h adjustable, step by 0.01ml/h	

Bolus rate	0.10-60.00 (ml/h) (2ml syringe size) 0.10-150.0 (ml/h) (5ml syringe size) 0.10-600.0 (ml/h) (20ml syringe size) 0.10-2000.0 (ml/h) (50/60ml syringe size)	0.10-90.00 (ml/h) (3ml syringe size) 0.10-300.0 (ml/h) (10ml syringe size) 0.10-900.0 (ml/h) (30ml syringe size)
3 bolus ways selectable	Automatic/Manual/Rapid quantitative Bolus	
Purge rate	60.00 (ml/h) (2ml syringe size) 150.0 (ml/h) (5ml syringe size) 600.0 (ml/h) (20ml syringe size) 2000.0 (ml/h) (50/60ml syringe size)	90.00 (ml/h) (3ml syringe size) 300.0 (ml/h) (10ml syringe size) 900.0 (ml/h) (30ml syringe size)
Occlusion level	12 levels selectable, 150mmHg- 975mmHg	

Special Function

Recent therapy	20 recent therapies are recorded and can be used for rapid infusion
Rate change during infusion	Infusion rate can be changed anytime during infusion, not necessary to stop infusion before change
Relay function	Continuous infusion among any pump within docking station at any mode to guarantee non-stop therapies for sensitive drugs
Screen lock	Both Manual screen lock and Auto screen lock are available.
Drug library	Up to 5000 drugs can be built in
Repeat alarming	Alarm sounds again in 2 minutes, if there is still alarm after alarm is mute
Event recording	Maximum 2000 events can be stored and play back
Sound volume	5 levels selectable
Power supply switching	When AC/DC power supply is cut off, the infusion automatically switch to internal battery supply

Power supply

AC power	100-240, 50/60 Hz, power consumption 45VA
External DC power	DC 12 V, 2.5A
Internal battery	Lithium battery 11.34V 2900mAh
Battery duration	10 hours @5ml/h with a new battery
Charging time	Min 4 hours when power off

Alarm

Visual and acoustic alarm	Infusion End, BAT Empty, Patient Side OCCL, Infusion End KVO Start, KVO End, Relay Failed, Syringe Empty, Holder Error, Drive Head ERR, Standby End, Infusion Near End, No Battery, No AC Power, BAT Low, Reminder Alarm, Syringe Near Empty, PCA 1h overrun, and PCA 4h overrun
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Connectivity

WiFi/Wired	To connect central infusion monitoring system, nurse caller, voice communication and infusion pump information network
Barcode scanning	Patient information input by barcode scanning
Data interface	Supported, USB, RJ45
Protocol	HL7

Mounting

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

Safety requirement

Operating conditions	Temperature: 5°C to 40°C Humidity:15% to 95% RH Pressure altitude: 57.0kPa-106.0kPa
Storage conditions	Temperature: -20°C to +55°C Humidity:10% to 93% RH Pressure altitude: 22.0kPa-107.4kPa