



# SYRINGE PUMP

## Frey 4.3is



## Safety

High accuracy:  $\pm 5\%$   
air bubble detect & pressure detect  
Anti-bolus function  
Water proof level: IP34  
9 hours battery back-up time

## Friendliness

4.3" colour touch screen  
Intuitive operation system  
Automatic calibration  
Inter-stackable design



Color touch LCD display  
Multiple infusion modes  
High water proof level  
Long battery time  
Detailed parameters  
4.3" color touch LCD display with text and image  
 $\pm 2\%$  high accuracy to make sure safe infusion  
7 infusion modes to satisfy different infusion requirements  
Use 2, 5, 10, 20, 30, 50/60ml syringes  
Easy calibration and automatic recognition of syringe size  
Programmable and support change rate during infusion  
Automatic and manual bolus  
DERS (Drug error reduction system)  
DPS (Dynamic pressure system)  
Big storage for history records and drug library  
Waterproof level IP34  
Up to 11 hours battery life  
Inter-lockable and free combination between syringe pump and infusion pump

# Technical Specifications

## Physical Parameters

Weight	1.4kg
Handle	Standard accessory, up loaded
Inter-lockable	Yes
Door	Manual
CPU	Double CPU
Ambulance use	Apply GB/T 14710-2009 transport test
IP Level	IP34

## Display

Screen	4.3 '' Color TFT touch screen
Language	English
Input interface	Touch screen Numeric & Alphanumeric keyboard & keypa

## IV SET

Syringe Size	2/3, 5, 10, 20, 30, 50/60ml
Automatic syringge size reconognization	Yes

## Infusion Parameter

Infusion Mode	Rate, Time, Body-weight, drip, Drug library, Ramp up/down, Loading-dose, Sequence mode
Relay Mode	Yes
Micro mode	Yes
Rate Range	0.1-1500ml/h
Mechanical Accuracy	≤±1%
Operational Accuracy	±2%
Change rate during infusion	yes
KVO	0.1-5ml/h adjustable Maual/automatic 2/3ml: 0.1~100ml/h 5ml: 0.1~150ml/h
Bolus	10ml: 0.1~300ml/h 20ml: 0.1~600ml/h 30ml: 0.1~900ml/h 50ml/60ml: 0.1~1500ml/h
Purge	2/3ml: 100ml/h 5ml:150 ml/h 10ml:300 ml/h 20ml:600 ml/h 30ml:900 ml/h 50ml/60ml:1500 ml/h

## Safty

Occlusion units	mmHg/kPa/bar/psi
Occlusion levels	12 levels, 75-900 mmHg
Occlusion display	Yes
Anti-bolus	Yes

## Alarm

Alarm display	Audible, visible alarm with text and image
Alarm volume	10 levels adjustable
Reminder	yes

## Information Database

Database capacity	More than 5000 history records, 30 last therapies
Drug library	Editable, no less than 2000 drug information
DERS	Yes

## Battery

Battery Type	Rechargeable Lithium ion polymer battery
Battery life	Standard: >4.5 hours @ 25ml/h Optional: >9 hours @ 25ml/h
Charging time	≤5 hrs

## Others

Automatic keypad lock	Yes
Night mode	Yes
DC Supply	Yes, 12V
Wireless LAN, IrDA	IrDA standard, Wireless LAN optional



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