



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 syrinngge 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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