

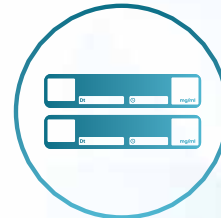
# CARDIOTHORACIC DRUG DELIVERY



WiFi Enabled Pump



QR code for Asset track & Maintenance



Drug Library with flow rate calculation

- ▶ Suitable for Cardiothoracic patients
- ▶ Compact & light weight (1.8Kg)
- ▶ Anti-bolus function
- ▶ Drug Library (100 drugs) with auto flow rate calculation
- ▶ Event log
- ▶ Real time clock
- ▶ Hospital Name display
- ▶ 2ml, 5ml, 10ml, 20ml, 30 ml, 50/60 ml syringe applicable
- ▶ LCD Display with user assist menu
- ▶ 0.01 ml/hr to 3000 ml/hr flow rate

- ▶ Occlusion pre-alarm and alarm
- ▶ Battery back up to 8 hrs
- ▶ Front loading operation
- ▶ LCD, LED Display & User Friendly Operation
- ▶ Stackable up to 4 pumps
- ▶ Different safety alarm facility
- ▶ Dosage ramp up and taper down program
- ▶ Custom programmable mode to accept any brand of syringe
- ▶ Automatic Syringe Size Detection

- ▶ In line program during infusion
- ▶ KVO function.
- ▶ Target Volume & Time Setting.
- ▶ Infused Volume & Time Display
- ▶ Upgrade to PCA Function(optional)
- ▶ Bolus Function
- ▶ Adjustable Occlusion Pressure
- ▶ 'Delivery Line Disconnected' alarm during infusion
- ▶ Multifunction Mounting Pole Clamp for Better Fixing



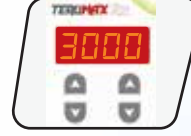
### 1.8kg Weight

Weightless, carrying 4 pumps, mobility is comfortable.



### Small & Compact

Small & compact, occupies less space near the patient even when 5 pumps are stacked. Allows easy access for medical & paramedical staff.



### High Flow Rates

High flow rate of 3000 ml/hr can quickly deliver in an emergency.



### Delivery Line Disconnected Alarm

Safety alarms are generated when drug delivery line is accidentally disconnected from patient.



### Porting Multiple Pumps

Easily port 4 pumps on a carrying stand. Enhances patient mobility.



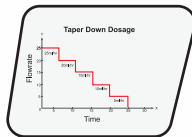
### Drug Library

Drug library function with mg/kg/hr, mcg/kg/min, mcg/kg/hr, mcg/kg/min



### PCA Function(Optional)

PCA Handset



### Dosage Ramp Up & Taper Down

5 Sequential programs for Dosage Ramp up & Taper down function

## SPECIFICATION

Power Supply	220-240V AC, (Optional DC 18 V)
Battery	12V (800 mAh) Ni-MH Battery
Battery Backup	8hrs @ 5ml/hr Flow rate on 50ml Syringe

Power Consumption	7 VA
Display	LCD & LED Display.
Applicable Syringe	2ml, 5ml, 10ml, 20ml, 30ml, 50/60ml Syringes form any brand. Custom Programmable for any brand Syringe also available.

Automatic Syringe	Available Size Detector
Flow Rate	Mains Battery Syringe Size
Range ml/Hr	0.01-350 0.01-180 2 ml 0.1 - 750 0.1-350 5 ml 0.1 - 1000 0.1-500 10 ml 0.1 - 1800 0.1-900 20 ml 0.1 - 2500 0.1-1200 30 ml 0.1 - 3000 0.1-2000 50 ml

Infused Volume	0.1 - 9999 ml
Elapsed Time	Display of Elapsed time from 00:01 to 199:59 hrs

Dosage Taper Up/Down	Sequential program of 5 different Flow-rate at Different target time or volume (Sequential Mode) available.
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KVO	0.1ml/Hr to 9.9ml/Hr in 0.1 ml increment.
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Last data ON/OFF	Last infusion rate can be stored even after AC power is OFF
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Bolus	Purge Bolus & Auto Bolus
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Flow Rate	Mains Battery Syringe Size
Range ml/Hr	0.01-350 0.01-180 2 ml 0.1 - 750 0.1-350 5 ml 0.1 - 1000 0.1-500 10 ml 0.1 - 1800 0.1-900 20 ml 0.1 - 2500 0.1-1200 30 ml 0.1 - 3000 0.1-2000 50 ml

Bolus Volume	0.1ml to 10 ml in 0.1 ml increments
Occlusion Pressure	10 steps selection (OFF to 9Levels).
Anti -Bolus function	Available.
Event log with RTC	Available 5000 Events
Alarms	

TAR.1  
TAR.2  
END  
PCA.D  
DECL  
P.OCL  
OFF  
AL 1

AL 2  
AL 3  
AL 4

AL 5  
AL 6

AL 9  
AL 10  
AL 11

### Audio/Visual Indication & Alarms:

Target volume reached  
Target time reached  
End of Syringe  
PCA probe disconnected  
Occlusion Pressure limit reached  
Occlusion Pressure Prealarm  
Battery Discharged  
Syringe Holder Disturbed during infusion  
Delivery Line disconnected alarm  
Internal Mechanism fault  
Mains to Battery changed. Flow rate reduced to Battery range  
Mains Voltage Over the Limit  
Mains Voltage Below 215 reduce Flow rate <=2000 ml/Hr  
Priming Not Done  
Occlusion sensor Failed  
Low patient back pressure, Maintain bed level equal to pump

Target reached (time or volume), Occlusion pressure prealarm, Occlusion, Near to Empty, End of syringe, Battery mode, battery low, Internal mechanism fault, KVO Mode, Bolus Mode, PCA Mode, PCA probe disconnected, Patient end drug line disconnected alarm, Operation on mains/battery.

Modes	Flow Rate only, Flow Rate & Target volume, Flow Rate & Target Time, Target volume and target time, Drug library mode, Syringe pump with PCA Mode.
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Drug Library	Available with 100 drug names. Flow rate calculation based on patient weight(kg)
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Drug Concentration	mg/ml, mcg/ml, ng/ml, cal/ml, kcal/ml etc.,
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Dosage	mg/kg/hr, mc/kg/min, mcg/kg/hr, mcg/kg/min etc.,
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Communication	Rs232, WIFI enabled mobile App, CMS
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PCA	PCA dose can be preset from 0.1to 10ml. Minimum locking time Interval between two Doses, Time interval from 0 - 24hrs in steps of 1 min, Delivered and non delivered doses display
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Operating & Storage	-10 to 50 degree C Temperature
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Accuracy	±1%
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Safety Testing	EN 60601-1, EN 60601-1-2, EN 60601-1-6, EN 60601-1-8, EN 60601-2-24
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Certification	CE, ISO 13485:2016, ISO 9001:2008
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Space Occupied	2.2 ltrs
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Weight & Dimension	1.8 kg; 170 x 96 x 133 ( L x B x H)
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