

# INFUSYS SERIES

## Syringe & Volumetric Infusion Pump

CDSCO Mfg.Lic.No: MFG/MD/2024/000441



### INFUSYS-S



Clinical Application Enhanced  
With cutting Edge Technology

Futuristic Design for Safe and  
Efficient Drug Delivery

### INFUSYS-V



‘INFUSING LIFE’



# Dynamic Graphical Indication of Occlusion.

## INFUSYS-S

INFUSYS-S is designed focused on Safe & Accurate Delivery of drugs Combined with Intelligent Technology for Providing delightful user experience and clinical Application.



- ♦ Innovative Multi-layer Screen for enhanced visibility and interface.
- ♦ Anti-Bolus and Anti-Siphon Safety protection in built design.
- ♦ RTOS based firmware simplified for user Intuitive operation.
- ♦ Effortless Custom Syringe Calibration.
- ♦ Dedicated Hardware based sensors to detect Critical Alarms for Safe infusion.
- ♦ Automatic syringe size detection.
- ♦ Comprehensive design Stacking & Docking facility combining Syringe Pump & Volumetric Pump.



## Common Features of INFUSYS SERIES

- ♦ 2.8-inch TFT LCD High Resolution Graphic Colour display.
- ♦ Simultaneous display of all parameters.
- ♦ Environment sensor to Auto-Adjust Brightness of display to save power and optimize visibility.
- ♦ Drug Library.
- ♦ Keep Vein Open.
- ♦ Audio and Visual alarms.

# Dynamic Graphical Indication of Occlusion.

## INFUSYS-V

INFUSYS-V offers Transformational Design Technology with Extensive drug Infusion algorithms. Unique door arrangement provides effortless swift loading of I.V.Set.



- ◆ Innovative Multi-layer Screen for enhanced visibility and interface.
- ◆ Ensuring Flowrate accuracy with or without Drop sensor.
- ◆ Anti-Bolus & Anti free flow safety protection in built design.
- ◆ RTOS based firmware simplified for user Intuitive operation.
- ◆ Horizontal Pump design provides improvisation for Patient Care.
- ◆ Effortless Custom I.V Set Calibration.
- ◆ Comprehensive design Stacking & Docking facility combining Syringe Pump & Volumetric Pump.



## Common Features of INFUSYS SERIES

- ◆ Keypad Lock function.
- ◆ Maintaining same flowrate in Mains and Battery power.
- ◆ Auto storage of last set parameters.
- ◆ Auto and Manual Bolus.
- ◆ Purge Function.
- ◆ Facility of Vertical & Horizontal pole clamp mounting.

# SPECIFICATION

INFUSYS-S	
<b>INFUSION MODES</b>	Rate-Volume, Volume-Time, Rate-Time
<b>SYRINGE SIZES</b>	Automatic detection of 5ml, 10ml, 20ml, 30ml, 50/60ml
<b>FLOW RATE</b>	5 ml Syringe: 0.1 to 200ml/hr 10 ml Syringe: 0.1 to 400ml/hr 20 ml Syringe: 0.1 to 600ml/hr 30 ml syringe: 0.1 to 900ml/hr 50/60 ml Syringe: 0.1 to 1500ml/hr
<b>VOLUME (VTBI)</b>	0.1 ml to 9999.9ml 0.1 ml increment.
<b>BOLUS RATE</b>	5 ml Syringe: 0.1 to 200ml/hr 10 ml Syringe: 0.1 to 400ml/hr 20 ml Syringe: 0.1 to 600ml/hr 30 ml syringe: 0.1 to 900ml/hr 50/60 ml Syringe: 0.1 to 1500ml/hr
<b>AUTO BOLUS (VTBI)</b>	0.1 to 60 ml
<b>PURGE RATE</b>	200ml/hr to 1500ml/hr Syringe based.
<b>KVO</b>	0.1 to 10ml/hr
<b>OCCCLUSION PRESSURE</b>	Low : 300 mmHg ± 100 mmHg Medium : 600 mmHg ± 100 mmHg High : 900 mmHg ± 100 mmHg
<b>SET TIME</b>	00:01 to 99:59 Hrs
<b>PAUSE / STANDBY FUNCTION</b>	1 min – 24 Hrs
<b>FLOW RATE ACCURACY</b>	± 1% Mechanical, ± 2% Including Syringe (With Recommended and Quality Syringes)
<b>PRE-ALARM</b>	Volume Limit, Occlusion of the Line, Low Battery, Near Empty.
<b>ALARMS</b>	Plunger Disengaged, Clutch Disengaged, Syringe Installation Error, Infusion Completed, Occlusion, System Error, End of Infusion, Low Battery, Preventive Maintenance, Load Syringe.
<b>DISPLAY</b>	2.8" TFT High-Resolution Colour Screen
<b>DISPLAY PARAMETERS</b>	Set Flow Rate, Set Volume, Set Time, Calculated-Rate/Volume/Time, Volume Infused, Elapsed Time, Total Volume Infused, Graphical display of Set and Inline Occlusion Pressure, Set Bolus Rate/Volume, Set Bolus Volume/Time, Bolus Volume Infused, Syringe Size with Brand Name, Battery Level Indicator, Running Status of Pump, Visual Alarm Message, Set Occlusion Level, Real Time Clock, Infusion Mode Name, Indication for Keypad Locking.
<b>BATTERY &amp; CHARGING TIME</b>	7.4V, 2600 mah Lithium-ion, 6hrs Automatic Rechargeable.
<b>BATTERY BACKUP</b>	8hrs @ 5ml/hr
<b>POWER SUPPLY</b>	100 to 265 V AC, 50/60Hz, DC 12V 3A
<b>WEIGHT AND DIMENSION</b>	1.8kg and 255mm(L) × 95mm(W) × 130mm(H)
<b>CERTIFICATIONS</b>	ISO 13485, CDSCO Licensed INDIAN Medical Device Manufacturer
<b>ELECTRICAL SAFETY CLASSIFICATION</b>	Class II, Type CF
<b>WATER PROOF CLASSIFICATION</b>	IPX4
<b>DOCKING</b>	Options to mount 4/6/8 Pumps with multi & across Combination of Syringe Infusion pump & Volumetric Infusion pump.
<b>STACKING</b>	Upto 3 Pumps
<b>EXTERNAL INTERFACE</b>	12V DC
<b>ENVIRONMENTAL CONDITION (OPERATING &amp; STORAGE)</b>	Temperature: 10°C to 50 °C Humidity: 15% to 95% Pressure: 5.5 ± 2kpa to 106 ± 5kpa

INFUSYS-V	
<b>INFUSION MODES</b>	Rate-Volume, Volume-Time, Rate-Time
<b>IV SET</b>	Accepts All Standard Adult and Paediatric IV sets.
<b>FLOW RATE</b>	0.1 to 1200ml/hr for Adult 0.1 to 100ml/hr for Micro
<b>VOLUME (VTBI)</b>	0.1 to 9999.9ml for Adult 0.1 ml increment. 0.1 to 999.9 ml for Micro 0.1 ml increment.
<b>BOLUS RATE</b>	0.1 to 1200ml/hr for Adult 0.1 to 100ml/hr for Micro
<b>AUTO BOLUS (VTBI)</b>	0.1 to 100ml for Adult. 0.1 to 50ml for Micro.
<b>PURGE RATE</b>	1200ml/hr for Adult 100ml/hr for Micro
<b>KVO</b>	0.1 to 10ml/hr for both Adult and Micro.
<b>OCCCLUSION PRESSURE</b>	Low : 300 mmHg ± 100 mmHg Medium : 600 mmHg ± 100 mmHg High : 900 mmHg ± 100 mmHg
<b>SET TIME</b>	00:01 to 99:59 Hrs
<b>PAUSE / STANDBY FUNCTION</b>	1 min – 24 Hrs
<b>FLOW RATE ACCURACY</b>	± 5% (With Recommended and Quality IV Sets)
<b>PRE-ALARM</b>	Volume Limit, Occlusion of the Line, Low Battery.
<b>ALARMS</b>	Door Open, Air Bubble, Infusion Completed, Occlusion, System Error, System Error, Low Battery, Preventive Maintenance, Load IV Line.
<b>DISPLAY</b>	2.8" TFT High-Resolution Colour Screen
<b>DISPLAY PARAMETERS</b>	Set Flow Rate, Set Volume, Set Time, Infusion Rate, Infusion Time, Volume Infused, Elapsed Time, Total Volume Infused, IV set (Adult/Micro), Graphical display of Set and Inline Occlusion Pressure, Set Bolus Rate/Volume, Set Bolus Volume/Time, Bolus Volume Infused, Battery Level Indicator, Running Status of Pump, Visual Alarm Message, Set Occlusion Level, Real Time Clock, Infusion Mode Name, Indication for Keypad Locking.
<b>BATTERY &amp; CHARGING TIME</b>	7.4V, 2600 mah Lithium-ion, 6hrs Automatic Rechargeable.
<b>BATTERY BACKUP</b>	4hrs @ 50ml/hr
<b>POWER SUPPLY</b>	100 to 265 V AC, 50/60Hz, DC 12V 3A
<b>WEIGHT AND DIMENSION</b>	1.8kg and 255mm(L) × 95mm(W) × 130mm(H)
<b>CERTIFICATIONS</b>	ISO 13485, CDSCO Licensed INDIAN Medical Device Manufacturer
<b>ELECTRICAL SAFETY CLASSIFICATION</b>	Class II, Type CF
<b>WATER PROOF CLASSIFICATION</b>	IPX4
<b>DOCKING</b>	Options to mount 4/6/8 Pumps with multi & across Combination of Syringe Infusion pump & Volumetric Infusion pump.
<b>STACKING</b>	Upto 3 Pumps
<b>EXTERNAL INTERFACE</b>	12V DC
<b>ENVIRONMENTAL CONDITION (OPERATING &amp; STORAGE)</b>	Temperature: 10°C to 50 °C Humidity: 15% to 95% Pressure: 5.5 ± 2kpa to 106 ± 5kpa

\*External Drop Sensor (Optional)



**DECCAN MEDICAL SYSTEMS**

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