



progetti
Medical Equipment Solutions

PG-907s

Syringe Pump

Pompa a siringa



High brightness LCD 4.3" display touch-screen and user friendly interface
Complies with IEC 60601, high safety designation with dual CPUs
Automatically identify size for syringe of 2, 3, 5, 10, 20, 30, 50/60 ml
Unique anti-reserve function on motor to prevent upstream DERS (drug error reduction system) available
Available wireless Wi-Fi networking and remote control system with infusion central station (optional)

Display LCD 4.3" touch-screen ed interfaccia utente facile ed intuitiva

Conforme alle norme IEC 60601, elevata sicurezza con duplice CPU

Identificazione automatica della siringa di 2, 3, 5, 10, 20, 30, 50/60 ml

Funzione di controllo motore anti inversione per prevenire l'oclusione

Disponibile sistema di connessione Wi-Fi a centrale di infusione con controllo remoto (opzionale)



INFUSION



PG-907s

TECHNICAL SPECIFICATIONS



Electric protection Type: Class I
Electric protection Level: Defibrillation proof type CF applied Part
Protection against fluid ingress: IP34
Working principle: Stepper motor lead screw operation continuous
Classification: Syringe pump with open system to use universal syringes brands
Special features: Dynamic pressure, night mode, stand-by, screen lock, password protection, change rate during running, automatic calculation, memory of last infusion settings, automatic calculation of concentration.

Specification parameters

Display: 4.3" TFT color touch screen
Infusion mode: 7 modes available (ml/h, body weight, TIVA, loading dose, ramp up/down, sequence and relay mode)
Micro mode: 100 ml/h – 1200 ml/h, programmable
Infusion rate range: 0.01 – 1500 ml/h depending on syringe size with min. increment 0.01 ml/h
Compatible syringes: 2ml, 3ml, 5ml, 10ml, 20ml, 30ml, 50/60ml
System accuracy: $\geq 1\text{ml/h}$, $\pm 2\%$
Infusion rate: Syringe size 2/3ml: (0.01-50) ml/h; 5ml: (0.01-100) ml/h; 10ml: (0.01-200) ml/h; 20ml: (0.01-400) ml/h; 30ml: (0.01-600) ml/h; 50ml: (0.01-1500) ml/h
Bolus rate: Syringe size 2/3ml: (0.1-50) ml/h; 5ml: (0.1-100) ml/h; 10ml: (0.1-200) ml/h; 20ml: (0.1-400) ml/h; 30ml: (0.1-600) ml/h; 50ml: (0.1-1500) ml/h
Purge rate: Syringe size 2/3ml: 50 ml/h; 5ml: 100 ml/h; 10ml: 200 ml/h; 20ml: 400 ml/h; 30ml: 600 ml/h; 50ml: 1500 ml/h
KVO rate: 0.01-5.00ml/h default value is 1 ml/h
Micro mode settings range: Syringe size 2/3ml: (0.1-50) ml/h; 5ml: (100-100) ml/h; 10ml: (100-200) ml/h; 20ml: (100-400) ml/h; 30ml: (100-600) ml/h; 50ml: (100-1500) ml/h
Minimum flow rate increment: 0.01ml/h
Bolus: Manual bolus and programmable bolus, anti-bolus support
Bolus Volume: Syringe size 2/3ml: Minimum 0.1ml, max 2ml; 5ml: Minimum 0.1ml, max 5ml; 10ml: Minimum 0.1ml, max 10ml; 20ml: Minimum 0.1ml, max 20ml; 30ml: Minimum 0.1ml, max 30ml; 50ml: Minimum 0.1ml, max 50ml
VTBI: 0-9999ml, minimum step is 0.01ml
Total Volume Infused: 0.01-9999.99ml, minimum step is 0.01ml
Time Range: 1min-99hrs59min
Purge: 100-1500 ml/h depending on syringe size
Occlusion levels: 12 levels
History records: More than 5000 records
Other functions: Nurse call, RS232, data export
Interface: Mini USB
Dimensions: 394(W)*90(D)*123(H) mm
Weight: 1,7kg

Power Supply

AC power supply: 100-240V 50/60Hz
Input power: 50VA
DC power supply: DC 15V lithium battery
Battery Specifications: Model: DC 203
Specification: 11.1V 2600mAh
Charging time: 5h under OFF state
Working time: $\geq 12\text{h}$ (after completely charging the new battery, when the environment temperature is 25°C and flow rate is 5ml/h, the constantly working time)

Alarm

Alarm information: VTBI near end, Syringe near empty, VTBI infused, syringe empty, pressure high, battery nearly empty, battery empty, no battery inserted, no power supply, check syringe, reminder alarm, Standby time expired, KVO finished

Environment

Operating: temperature: $5-40^{\circ}\text{C}$
humidity: 20-90%, non-condensable
atmospheric pressure: 86-106kPa
Transport & Storage: temperature: $-20-60^{\circ}\text{C}$
humidity: 10-95%, non-condensable
atmospheric pressure: 50-106kPa

Optionals

IrDA, WIFI, drop sensor, docking station and intravenous central station.

SPECIFICHE TECNICHE



Protezione Elettrica tipo: Class I
Protezione Elettrica livello: Prova di defibrillazione CF applicato
Protezione entrata liquidi: IP34
Principio di funzionamento: Motore a funzionamento continuo a vite
Classificazione: Pompa a siringa con sistema aperto per alloggiare tipi di siringhe universali
Funzioni speciali: Pressione dinamica, modo notturno, stand-by, blocco schermo, protezione da password, cambio parametri durante funzionamento, memoria ultimi parametri inseriti, calcolo automatico della concentrazione

Parametri

Display: 4.3" TFT a colori touch screen
Modo infusione: 7 modi disponibili (ml/h, peso corporeo, TIVA, dose di carico, incremento, sequenza e collegamento a centrale di infusione)
Modalità micro infusione: 100 ml/h – 1200 ml/h programmabile
Range infusione: 0.01 – 1500 ml/h con incremento min. 0.01 ml/h secondo le dimensioni dalla siringa
Siringhe compatibili: 2ml, 3ml, 5ml, 10ml, 20ml, 30ml, 50/60ml
Accuratezza del sistema: $\geq 1\text{ml/h}$, $\pm 2\%$
Volume infuso: Siringa 2/3ml: (0.01-50) ml/h; 5ml: (0.01-100) ml/h; 10ml: (0.01-200) ml/h; 20ml: (0.01-400) ml/h; 30ml: (0.01-600) ml/h; 50ml: (0.01-1500) ml/h
Velocità bolo: Siringa 2/3ml: (0.1-50) ml/h; 5ml: (0.1-100) ml/h; 10ml: (0.1-200) ml/h; 20ml: (0.1-400) ml/h; 30ml: (0.1-600) ml/h; 50ml: (0.1-1500) ml/h
Velocità spurgo: Siringa 2/3ml: 50 ml/h; 5ml: 100 ml/h; 10ml: 200 ml/h; 20ml: 400 ml/h; 30ml: 600 ml/h; 50ml: 1500 ml/h
KVO: 0.01-5.00ml/h
Modalità micro: Siringa 2/3ml: (0.1-50) ml/h; 5ml: (100-100) ml/h; 10ml: (100-200) ml/h; 20ml: (100-400) ml/h; 30ml: (100-600) ml/h; 50ml: (100-1500) ml/h
Incremento minimo precisione flusso: 0.01ml/h
Bolo: Bolo manuale e programmabile, supporto anti-bolo
Volume bolo: Siringa 2/3ml: Minimum 0.1ml, max 2ml; 5ml: Minimum 0.1ml, max 5ml; 10ml: Minimum 0.1ml, max 10ml; 20ml: Minimum 0.1ml, max 20ml; 30ml: Minimum 0.1ml, max 30ml; 50ml: Minimum 0.1ml, max 50ml
VTBI: 0-9999ml, minimo step 0.01ml
Volume totale infuso: 0.01-9999.99ml, minimo step 0.01ml
Range tempo: 1min-99hrs59min
Spurgo: 100 - 1500 ml/h secondo le dimensioni della siringa
Rilevamento occlusione: 12 livelli di pressione
Capacità memoria: Più di 5000 registrazioni
Altre funzioni: Chiamata infermiere, RS232, data export
Interfaccia: Mini USB
Dimensioni: 394(W)*90(D)*123(H) mm
Peso: 1,7kg

Alimentazione

Alimentazione a rete: 100-240V 50/60Hz
Potenza d'ingresso: 50VA
Alimentazione a batteria: DC 15V batteria al litio
Specifiche batteria: Modello: DC 203
Specifiche: 11.1V 2600mAh
Tempo di ricarica: 5h con macchina spenta
Durata batteria: $\geq 12\text{h}$ (con batteria completamente carica, con temperatura esterna intorno ai 25°C e precisione di flusso di 5 ml/h)

Allarmi

Informazione di allarme: VTBI vicino alla fine, siringa quasi vuota, VTBI infuso, siringa vuota, pressione alta, batteria vicina al termine, batteria terminata, batteria non inserita, no cavo energia, controllo allarme siringa, stand-by scaduto, KVO finito

Condizioni Ambientali

Condizioni di funzionamento: Temperatura: $5-40^{\circ}\text{C}$
Umidità: 20-90%, non-condensata
Pressione atmosferica: 86-106kPa
Condizioni di conservazione: Temperatura: $-20-60^{\circ}\text{C}$
Umidità: 10-95%, non-condensata
Pressione atmosferica: 50-106kPa

Opzionali

IrDA, WIFI, sensore goccia, docking station e centrale di infusione.



PROGETTI S.r.l.
Strada del Rondello, 5
10028 Trofarello (Torino) - Italy
Ph. +39 011 644 738
Fax +39 011 645 822
info@progettimedical.com
www.progettimedical.com



Management System
EN ISO 13485:2016
www.tuv.com
ID: 9000027452



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