FRESENIUS KABI

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Agilia® SP PCA

Advanced syringe infusion pumps for
Patient Controlled Analgesia (PCA)

For PCA and for General Infusion

4 PCA infusion modes with hardware and
software protection against overdose

Adaptable to all protocols

Up to 19 drug libraries available

Easy and intuitive to use

Stand alone or rack mounted

CIN:U24231PN1995PTC014017

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Infusion

Flow rate range
0.1 - 1200 mL/h, depending on the syringe capacity (0.1 mL/h increment).
Flow rate can be limited according to drug name (soft and hard limits) with Agilia Vigilant Master Med, IV Medication Safety System.

Flow rate accuracy
+/- 1% on mechanism : +/- 2 % on syringes.

Syringes capacities
5, 10, 20, 30/35, 50/60 CC.

Type of syringe
Up to 100 different types.

PCA Infusion modes

PCA bolus mode
Continuous rate mode
PCA bolus + continuous mode
PCA bolus + variable rates mode
All programmable in dosing units (mcg, mg, mcg/kg, mg/kg) or in volume (mL).

PCA bolus
0 to 10 mL, 0 to 100 mg, 0 to 1000 mcg, 0 to 100 mcg/kg, 0 to 10 mg/kg.
rate from 40 to 1200 mL/h.

Lock out time
1 to 120 minutes.

Patient Handset
Ergonomic design, waterproof, with light, with handstrap, beep emission.

Clinician bolus
Available at start-up as a loading dose, available during the PCA cycle with a password.

Hardware & Software protection
Optional syringe protective cover with key lock, password required.

Cumulated limits
Adjustable in 1, 2, 4, 12 or 24 h.
In total dose given (in mL, or mg, or mg/kg, mcg, mcg/kg).
and/or
In number of PCA boluses given.

PCA history
Follow-up from 1h to 24h.
Total dose given.
Number of PCA boluses attempted.
Number of PCA boluses given.
Number of clinician boluses.
Background dose.

General Infusion Modes

mL/h mode.
Dose rate mode: ng/h, ng/kg/min, ng/kg/h, microg/min, microg/h, microg/kg/min, microg/kg/h, mg/min, mg/h, mg/24h, mg/kg/min, mg/kg/h, mg/kg/24h, g/m²/h, mg/m²/24h, g/h, g/kg/min, g/kg/h, g/kg/24h, mmol/h, mmol/kg/h, mmol/kg/24h, mU/min, mU/kg/min, mU/kg/h, U/min, U/h, U/kg/min, U/kg/h, kcal/h, kcal/24h, kcal/kg/h, mEq/min, mEq/h, mEq/kg/min, mEq/kg/h.
Dilution setting: -- units / mL or -- units / -- mL.
With or without loading dose.
Volume or dose / time: 0.1 - 99.9 mL; 00 h 01 - 96 h 00.
Volume limit: 0.1 - 999 mL.

Volume/Dose infused
Volume : 0.1 - 999 mL / Dose: 0.1 - 9999 units.

Priming
3 modes: mandatory, not mandatory, or advised / Rate: 1200 mL/h.

Bolus
Direct bolus: Rate: 50 - 1200 mL/h (50 mL/h increment)
Programmed bolus (dose or volume / time): 0.1 - 99.9 mL ;
0,1 - 9999 units / 1 min - 24 h.

Pause
Program from 1 minute to 24 hours with 1 minute increment.

Data log event
1500 data log events in real time.

Night mode
The night mode decreases the brightness of the screen and the green lights. The key beep can eventually be turned off. The night mode can be programmed manually or automatically in a variable time range.

Profiles
Basic profil: infusion without any display of the drug names.
19 Custom profiles configurable with Agilia Vigilant Master Med: Drug library to be created with Agilia Vigilant Master Med.
Configuration only: Custom pump configuration without Drug Name.

Pressure management

Pressure modes
2 modes available: variable or 3 pre-set levels - Range from 50 to 900 mmHg (25 mmHg increment from 50 to 250 mmHg / 50 mmHg increment from 250 to 900 mmHg). Can be enabled / disabled and adjusted. Availability of PCA bolus.

DPS
The Dynamic Pressure System - DPS - warns of pressure variations.
A risk of obstruction or a possible leak in the infusion line can thus be anticipated.

Pressure monitoring
Graphic representation of the pressure in the infusion line and of the pressure limit thanks to the pictogram.

Anti-bolus system
Reduces significantly bolus after occlusion release.
≤1 mL max for a 50 mL syringe.

Alarms / Pre-alarms / Security

Pump status
GREEN for infusion in progress, ORANGE for Low and Medium priority, RED for High priority - Visibility at 4 meters minimum.
All alarms are expressed by means of light indicators, written words, pictograms and sound beeps.

Patient Handset status
When the pump is on (connected handset), a BLUE LED placed above the Bolus button lights up - Blinking light for PCA bolus request.

Syringes installation control
Protective cover check, syringe barrel clasp check, plunger head detection, anti-siphon system check, flange detection.

Infusion control
Occlusion pressure pre-alarm, occlusion pressure alarm, end of infusion pre-alarm, end of infusion alarm, volume limit pre-alarm, volume limit alarm, hard and soft flow rate limits, start infusion at pause end.

Device control
Disengaged driving mechanism alarm, low battery pre-alarm, discharged battery alarm, battery capacity display in hours and minutes, unconfirmed programming, technical malfunction alarm (auto-test, rotation), drive system advance check, watchdog check, communication connection failure, plug-head disengagement, auto-lock/lock code (on Keypad).

Patient Handset control
Patient handset not connected. Patient handset button continuously pressed. Patient bolus refused.

Maintenance
Preventive maintenance warning.

Technical specifications

Manual pusher
Protection for the ongoing infusion thanks to Push-Guard and the protective cover.

Display
Blue graphic LCD monochrome, size 66 mm x 33 mm
(256 x 128 pixels).

Swinglock clamp
Versatile clamp that allows the fixation on a rail or on a pole, with locking mechanism allowing the pump to be permanently locked to the pole.
(Pole: 20-40 mm max. / Rail: 25-35 x 10 mm).

Stackability
Up to 3 devices self-stackable on a pole.

Pump dimensions (h/w/d) / weight
Without protective cover: 155 X 360 X 195 mm / ~ 2.5 kg.
With protective cover: 155 X 360 X 210 mm / ~ 2.7 kg.

Patient Handset dimensions (h/w/d) / weight
Without cable: 20 X 35 X 115 mm / ~ 65 g.
With cable: 20 X 35 X 1860 mm / ~ 65 g.

Battery
Characteristics: 7.2 V 2.2 Ah - Li-ion Smart battery, remaining battery life and battery charge level available on the display.

Battery Life (when fully charged):
- Agilia SP PCA
> 11 h at 5 mL/h

Battery recharge:
- Pump OFF: < 6 h
- Pump ON: < 20 h

Waterproofness
Pump: IP22.
Patient handset: IP67

Power supply
100 V - 240 V ~ / 50-60 Hz with functional earth.

Compliance

Electromagnetic compatibility EMC
IEC 60601-1-2, IEC 60601-2-24

Medical Device Directive
CE 0123 marking in compliance with the Concil Directive 93/42/EEC

Electrical Compliance
Protection against leakage current: Defibrillation-proof type CF
Protection against electric shocks: class II in accordance with IEC 60601-1

Alarm system
IEC 60601-1-8

Usuability Engineering
IEC 60601-1-6 and IEC 62366