

SP-12S PRO

Universal syringe pump

SAFE & ACCURATE
EASY & FRIENDLY TO USE



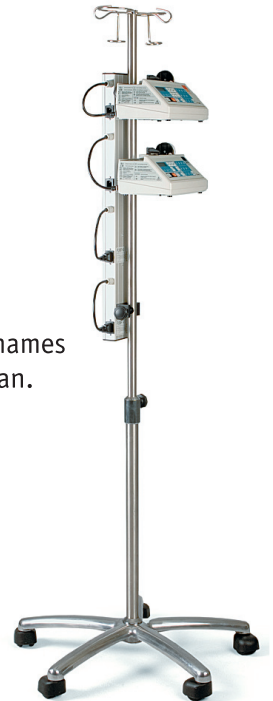
*Advanced infusion
technology for your
IV therapy*

SP-12S PRO



The SP-12S PRO offers the required maximum level of safety and flexibility for the precise delivery of medications within several patient care areas.

- Extended set up menu.
- Password protected access to parameters.
- Extended infusion rate range up to 1500 ml/h.
- All major syringe brands from 5 ml to 100 ml are accepted.
- The drug library contains 30 drug names and can be updated by the physician. Possibility to include drugs with profiled infusion.
- RS232 interface for an automatic therapy data transfer to a central computer.



Specifications

Model	SP-12S Pro
Flow rate range	0.1-99.9 ml/h in 0.1 ml/h; 100-1500 ml/h in 1 ml/h
Volume limit	0.1-999 ml or No limit
Total volume	0.1-99999 ml
Infusion rate in mass units	0.1-999 in mg/h or µg/h, mg/kg/h, µg/kg/h, mg/kg/min, µg/kg/min
Accuracy with approved syringes	± 2%
Compatible syringes, ml	10, 20, 30, 50/60 and 100 ml of more than 30 brands
Occlusion pressure	(120, 80, 40) kPa or (90, 60, 30) kPa
Bolus rate	10 – 1500 ml/h
Alarms	No Mains; Low Battery; Very Low Battery; Occlusion; 5 min Pre-alarm; KOR (KVO); End of Infusion; Syringe Empty; Internal Error
Classification	Class II, CF, IPX4
Operation conditions	+5 to +40 °C
Storage conditions	-20 to +40 °C
Power supply	(220-230) VAC ± 10%, 50/60 Hz, or internal rechargeable battery
Power consumption	10 VA (max)
Battery type	Built-in NiMH 9.6 V 1300 mAh

Battery life	8 h @5ml/h				
Display type	16 characters x 2 line LCD with back-light				
Weight	2.6 kg				
Dimensions	135x305x195 mm				
Selectable options for customized operations	<i>Enabled via set-up menu:</i> Total infused volume; Infusion rate limit; Automatic bolus; Bolus rate programming; Rate in mg(µg)/h; Rate in mg(µg)/kg/h(min); Syringe brand displaying; Calculation of concentration; KOR function; Autosave; Titration; Standby; Password; Key beep				
Special features	Selectable infusion modes; Syringe size detector; Syringe set configuration; Drug list configuration; Alarm volume adjustment; Infusion rate from drug volume and time of delivery; Date and time displaying; RS232				
Options	110 VAC ± 10%, 50/60 Hz; 12VDC; Nurse Call; Profile mode, Event log, Acceptance of 5 ml syringe				
Certificates	<table border="0"> <tr> <td>CE 0408</td> <td>EN ISO 9001:2000; EN ISO 13485:2003;</td> </tr> <tr> <td>FDA e35 030005</td> <td>EN 1789:1999 + A1:2003</td> </tr> </table>	CE 0408	EN ISO 9001:2000; EN ISO 13485:2003;	FDA e35 030005	EN 1789:1999 + A1:2003
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FDA e35 030005	EN 1789:1999 + A1:2003				
Warranty	1 year				

Product line



• SEP-10S



• SEP-10S PLUS



• SEP-12S PLUS



• SP-14S



• SEP-21 PLUS

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