

# SP-12S PRO

Universal syringe pump

**SAFE & ACCURATE**  
**EASY & FRIENDLY TO USE**



*Advanced infusion  
technology for your  
IV therapy*

# SP-12S PRO



The AITECS SP-12S PRO offers the required maximum level of flexibility and safety 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.
- Event log for registration and storage of 2000 events.
- All major syringe brands from 10 ml to 100 ml are accepted.
- The drug library contains 15 drug names and can be updated by the physician.
- RS232 interface for an automatic therapy data transfer to a central computer.



## Specifications

<b>Model</b>	SP-12S Pro
<b>Flow rate range</b>	0.1-1500 ml/h
<b>Volume limit</b>	0.1-999 ml or No limit
<b>Total volume</b>	0.1-9999.9 ml
<b>Infusion rate in mass units</b>	0.1-999.9 in mg/h or µg/h, mg/kg/h, µg/kg/h, mg/kg/min, µg/kg/min
<b>Accuracy with approved syringes</b>	± 2%
<b>Compatible syringes, ml</b>	10, 20, 30, 50/60 and 100 ml of main brands
<b>Occlusion pressure</b>	(120, 80, 40) kPa or (90, 60, 30) kPa
<b>Bolus rate</b>	10 – 1500 ml/h
<b>Alarms</b>	No Mains; Low Battery; Very Low Battery; Occlusion; 5 min Pre-alarm; KOR (KVO); End of Infusion; Syringe Empty; Internal Error
<b>Classification</b>	Class II, CF, IPX4
<b>Operation conditions</b>	+5 to +40 °C
<b>Storage conditions</b>	-20 to +40 °C
<b>Power supply</b>	(220-230) VAC ± 10%, 50/60 Hz, or internal rechargeable battery
<b>Power consumption</b>	10 VA (max)
<b>Battery type</b>	Built-in NiMH 9.6 V 1300 mAh

<b>Battery life</b>	8 h (min)@5ml/h
<b>Display type</b>	16 characters x 2 line LCD with back-light
<b>Weight</b>	2.6 kg
<b>Dimensions</b>	135x305x195 mm
<b>Selectable options for customized operations</b>	<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
<b>Special features</b>	Selectable infusion modes; Syringe size detector; Syringe set configuration; Drug list configuration; Syringe plunger sensor; Alarm volume adjustment; Infusion rate from drug volume and time of delivery; Date and time displaying
<b>Options</b>	110 VAC ± 10%, 50/60 Hz; RS232; 12VDC external supply; Nurse Call; Propofol mode
<b>Certificates</b>	<b>CE 0408</b> EN ISO 9001:2000; EN ISO 13485:2000; <b>FDA</b> EN 46001:1996
<b>Warranty</b>	1 year

## Product line



• SEP-10S



• SEP-10S PLUS



• SEP-12S PLUS



• SP-14S



• SEP-21 PLUS