



## Volumetric Infusion Pump AP31

### Simple, safe & reliable

Designed to meet the needs of modern I.V. therapy in neonatal/pediatric/adult ICU, CCU, anesthesia, cardiology and oncology.



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### Key features:

- user friendly software simplifies set-up and operation
- large, easily readable LCD display
- wide range of infusion rate
- drug dose calculation
- automatic & manual bolus capability
- easy modification of infusion parameters in running course
- comprehensive system of audible and visual alarms & warnings
- drug library with user selectable drug names
- RS232 interface
- long battery life
- data lock with a software-controlled passkey system
- event log (up to 2000 events recorded in real time): on-screen display or as XML file
- 4 modes of operation: flow rate, flow rate and volume, flow rate and time, volume over time

Please visit our web-site: [www.ascor.com.pl](http://www.ascor.com.pl) to get a detailed information about our whole product range.

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## Performances:

Flow rate range:	1 - 1000 ml/h (programmable in 0.1 ml/h steps)
Volume to be infused:	1 - 9 999 ml (programmable in 0.1 ml steps)
Maximum bolus rate:	up to 1500 ml/h (programmable in 1 ml/h steps)
Bolus dose / Induction dose:	programmable in 0.1 ml steps
Mass units programming:	units available: ml/h, µg/h, mg/h, µg/kg/h, mg/kg/h, µg/kg/min, mg/kg/min
Drug concentration:	0.01µg/ml ÷ 1000 mg/ml
Patient weight:	up to 300 kg (programmable in 0.1 kg steps)
Infusion time :	up to 99 h 59 min 59 sec
KVO rate:	0.1 - 5 ml/h (programmable in 0.1 ml/h steps)
Flow rate accuracy:	±5%
Occlusion pressure limit:	40 - 80 kPa (programmable in 1 kPa steps)
Air bubble detector:	ultrasonic
Drop detector:	optical, with digital disturbance filtration
Compatible I.V. set:	only special (dedicated) ASCOSET infusion sets can be applied
Extended system of alarms and warnings (both audible and visual):	Alarms: occlusion, end of infusion, KVO infusion, air in line, door open, no mains, discharged battery, internal malfunction Prealarms: 5 minutes left to the end of infusion, low battery

## Technical specifications:

Pumping system:	peristaltic
Power supply:	230 VAC ± 10%, 50/60 Hz, 10 - 15 VDC or from a built-in rechargeable battery, optionally: 110 VAC ± 10%, 50/60 Hz
Power consumption:	max. 10 VA
Built-in battery:	rechargeable, NiCd of increased durability (940 mAh)
Battery life:	min 10 h at a flow rate of 5 ml/h
Battery charging time:	24 h
Electrical safety:	Class I, type BF, IPX1
Conformity standards:	EN 60601-1, EN 60601-1-2, EN 60601-2-24, MDD 93/42/EEC
Weight:	3,6 kg
Dimensions (W x D x H):	140 x 230 x 230 mm
Operating conditions:	5° - 40° C; relative humidity: 20 - 90%

## Other features:

Computer Interface:	RS 232 C
External alarm socket:	24 V, 1 A
Other functions:	Battery life indicator User selectable drug names Infusion pressure monitoring Programmable name of ward Infusion parameters protected by a password Priming STAND-BY Extended menu of user tests
Event log:	2000 events

**Note:** Specifications and design are subject to change for improvement without notice

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