



- Certified Management System
- EN ISO 9001
- EN ISO 13485

## Syringe Pump AP14

### Simple, safe & reliable

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



### Key features:

- user friendly software simplifies set-up and operation
- large & easily readable LCD display
- wide range of infusion rate
- over 40 types of compatible syringes (10-60 ml)
- drug dose calculation
- automatic & manual bolus capability
- automatic reduction of residual bolus after occlusion release
- easy modification of infusion parameters in running course
- comprehensive system of audible and visual alarms & warnings
- drug library with user selectable drug names
- RS 232C 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:	0.1 - 2000 ml/h for 50 ml syringe 0.1 - 1200 ml/h for 30 ml syringe 0.1 - 1000 ml/h for 20 ml syringe 0.1 - 600 ml/h for 10 ml syringe (programmable in 0.1 ml/h steps)
Volume to be infused:	0.1 - 999 ml, programmable in 0.1 ml steps
Maximum bolus rate:	2000 ml/h for 50 ml syringe 1200 ml/h for 30 ml syringe 1000 ml/h for 20 ml syringe 600 ml/h for 10 ml syringe
Bolus dose / Induction dose:	limited to syringe size
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:	0.01 µg/ml ÷ 9999 mg/ml
Patient mass:	up to 300 kg, programmable in 0.01 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:	±2% (complies with EN 60601-2-24)
Occlusion pressure limit:	user selectable: 40 - 120 kPa, programmable in 10 kPa steps
Compatible syringes:	10, 20, 30 and 50/60 ml
Syringe brands:	B.BRAUN, BD, MONOJECT, CODAN, TERUMO, IVAC, INJECTOMAT, PENTAFERTE and other (see operating manual)
Extended system of alarms and warnings (both audible and visual):	Alarms: no syringe, wrong syringe, empty syringe, end of infusion, occlusion, no mains, discharged battery, internal malfunction Prealarms: 5 minutes left to the end of infusion or till the syringe gets empty, low battery

## Technical specifications:

Power supply:	230 V AC ±10%, 50/60 Hz, 12 - 15 V DC or from a built-in rechargeable battery, optionally: 110 V AC ±10%, 50/60 Hz
Power consumption:	max. 10 VA
Built-in battery:	rechargeable, NiCd of increased durability (940 mAh), automatically charged when the pump is connected to AC power supply
Battery life:	20 h for a flow rate of 5 ml/h
Battery charging time:	36 h
Classification:	Class I, type BF, IPX1
Conformity standards:	EN 60601-1, EN 60601-1-2, EN 60601-2-24, MDD 93/42/EEC
Pump mass:	3,0 kg
Dimensions (W x H x D):	320 x 140 x 180 mm
Operating conditions:	5° - 40° C, relative humidity: 20 - 90%

## Other functions:

Computer Interface:	RS 232C
External alarm socket:	24 V, 1A
Other functions:	<ul style="list-style-type: none"><li>• anti-bolus system (ABS)</li><li>• automatic syringe size recognition</li><li>• battery life indicator</li><li>• user selectable drug names</li><li>• programmable name of ward</li><li>• infusion pressure monitoring</li><li>• infusion parameters protected by a password</li><li>• priming</li><li>• STAND-BY</li><li>• extended menu of user tests and service tests</li></ul>
Event log:	2000 events

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

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