BD Alaris™ neXus GP Volumetric Pump

Connecting care areas with the Next-Gen BD solution

Hospitals are facing an increasing pressure to improve medication safety and reduce the cost of IV therapy. At BD, we are committed to partner with you to achieve the common goal of making patient care safer, simpler and more cost-effective.[1,2,+]

Optimising every infusion

The BD Alaris™ neXus GP volumetric pump is easy to program with BD Guardrails™ Safety Software that enhances^ patient safety, with 3,000 drug or fluid setups.[2,3] Wi-Fi enabled drug library deployment to pumps allows clinicians to benefit from the latest drug library and protection limits, without having to remove pumps from clinical areas.

Powerful Analytics[+*]

Wireless connectivity enables remote download of pump event logs and Continuous Quality Improvement (CQI) data from anywhere in the hospital.[*] Improved auditability of infusion records enables users to better identify, track, and minimise harmful medication errors.[1*+]

"Alaris GP smart pump with BD Guardrails™ Safety Software can significantly reduce intravenous administration errors in an Australian acute care setting"[3]

- Australian Commission on Safety and Quality in Healthcare Literature Review 2013

Features and benefits

Extensive drug library capacity to help standardise protocols hospital wide, 3,000 drug and fluid setups, spread over 30 available profiles, no additional constraint on the number of setups per profile.**

Wi-Fi enabled for automatic transmission of infusion data to the Clinical Information Systems.*

BD Alaris™ Gateway Workstation creates an organised workspace and connects pumps to the hospital's Clinical Information Systems.*

BD Alaris™ MRI capsule is available to support patient and pump transport during imaging situations.

Flexible END RATE feature for Volume To Be Infused (VTBI) with options to Stop, Keep Vein Open (KVO) or Continue at the set rate, supporting workflow efficiency by minimising disruptions to critical infusions (e.g. Inotrope).

Large and clear informatics display demonstrates all key parameters at a glance.

Complete portfolio of infusion sets including BD SmartSite™ Needle-Free Connectors, integrated filters, light sensitive materials, low sorbing and Diethylhexyl Phthalate (DEHP) free lines, for chemotherapy, blood transfusion and total parenteral nutrition.

More resilient casing material designed to improve durability to a variety of cleaning agents.+

Specifications

Infusion rate
0.1 to 1,200 mL/h.

Volume to be infused (VTBI)
1 to 9,999 mL.

Volume infused (VI)
0.1 to 9,999 mL.

Keep vein open (KVO) infusion rate
Selectable range 0.1 to 20 mL/h.

Bolus during infusion
Bolus rate 10 to 1,200 mL/h (in increments of 10 mL/h).
Bolus volume 0.1 to 999mL (in increments of 0.1mL).

Free flow protection
BD Alaris™ Safety Clamp included in all BD Alaris™ neXus GP sets.

Air-in-line detection
Triggered by single bubble or accumulation.

Occlusion pressure (user selectable)
50 to 800 mmHg.
9 levels of mmHg.

Alarms, warnings, prompts and advisories
Integrated amber/red beacon indicator, audible alarm and display covering the following alarm conditions: AC power failure and battery. Air-in-line (various messages). Set misload. Wrong set. Door close incomplete. Lever open. Set not fitted. Upstream or downstream occlusion. No flow. Flow error. Flow sensor disconnection. Near End of Infusion. VTBI done. Attention. Rate lock. Guardrails™ alerts.

Dimensions and weight
148 mm (w) x 225 mm (h) x 148 mm (d). 2.85kg including carry handle, internal battery and integrated pole clamp.

LCD display
60 mm (w) x 60 mm (h).
Viewing angle of 35°, legible from 3 m.
Drug names up to 20 characters.

Mechanism
4 finger peristaltic displacement.

Volume accuracy
±5% (nominal).

Event log
Capacity 99,960 events, approximately 1 year of event log storage in normal use.

Battery specifications
Integrated rechargeable NiMH; mean battery life 5 hours 15 minutes (Wi-Fi manually disabled) at an infusion rate of 25.0 mL/h; 4 hours 30 minutes (when connected to BD Alaris™ Communication Engine (ACE) via Wi-Fi at 25.0 mL/h); battery recharge 2 hours 30 minutes to 95%; battery status indicator included.

Power requirements
100-230V AC, 50-60 Hz, 60 VA (maximum).

Additional specifications
IEC/EN 60601-1-2, IEC/EN60601-2-24; IP33; RS232; BD Alaris™ Gateway compatible; suitable for ground ambulance use (EN1789).

Wi-Fi specifications
Wi-Fi Network Standards: 802.11a, 802.11b, 802.11g, and 802.11n
Wireless bands: 2400-2483.5 MHz / 5150-5350 MHz and 5470-5725 MHz.

BD Alaris™ neXus Editor
Windows 10 compatible

Product code GPneXus1

+Compared to BD Alaris™ GP Plus Volumetric Pump.
^ Compared to I.V. infusion pumps without Dose Error Reduction Software
*When connected via Alaris™ Communication Engine.
**Up to 3,000 setups per profile

1. Ohashi K, Dalleur O, Dykes PC, Bates DW. Benefits and risks of using smart pumps to reduce medication error rates: a systematic review. Drug Saf. 2014;37(12):1011–20;
2. Manrique-Rodríguez S, Sánchez-Galindo AC, López-Herce J, Calleja-Hernández MA, Martínez-Martínez F, Iglesias-Peinado I, et al. Implementing smart pump technology in a pediatric intensive care unit: a cost-effective approach. Int J Med Inform. 2014;83:99–105; Please refer to the Direction For Use for all pump details.
3. Prof Libby Roughead, Dr Susan Semple, Ms Ellie Rosenfeld. Australian Commission on Safety and Quality in Healthcare Literature Review 2013.TRIM D14-3207
Please refer to the Direction For Use for all pump details.
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