BD Alaris™ neXus GP Volumetric Pump

Everything is connected for all care areas

Pressure to reduce IV therapy cost and risk is increasing. The BD Alaris™ neXus GP volumetric pump makes caring for patients safer, simpler and more cost-effective[1,2]. By evolving with BD, you can achieve your goals for safety and efficiency while reducing variability and improving nurse satisfaction.

Protecting every infusion
The BD Alaris™ neXus GP volumetric pump is easy to programme and with Guardrails™ protects your patients and improves safety. Over the air secure library deployment to pumps anywhere in the hospital allow clinicians to benefit from the latest drug library and protection limits without having to remove the pump from the clinical area.

Infusion status at a glance
With many devices needing to be managed by the patient's bedside, nurses appreciate the security of a large and clear screen that can provide detailed information.

A real time central view of all pumps helps clinicians prioritise alarm response, better plan for transporting patients and for bag replacement in critical continuous infusions, allowing nurses to spend more time on patient care.

Powerful Analytics
Automatic over the air download of pump event logs and CQI data from anywhere in the hospital improves the process without interrupting clinical workflows as pumps are infusing. Allowing users to use provided tools to identify, track, and ultimately prevent harmful medication errors.[1]

The BD Alaris™ neXus GP volumetric pump is used within hospitals, healthcare facilities and during medical ambulance ground transportation. Offering a range of features suited to drug therapy, blood transfusion and parenteral feeding.

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
0.1 to 20 ml/h or set infusion rate if lower.

Bolus during infusion
Bolus rate 10 to 1,200 ml/h (steps 10 ml/h)
Bolus volume 0.1 to 999ml (steps 0.1ml).

Free flow protection
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 100,000 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) hours at 25.0 ml/h; 4 hours 30 minutes (when connected to ACE via Wi-Fi at 25.0 ml/h); 2 hours 30 minutes from discharge to 95% charge; battery status indicator included.

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

Additional specifications
IEC/EN 60601-1-2, IEC/EN60601-2-24; IP33; RS232; 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.

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.

Features and benefits

Standardised user-friendly interface to start infusion with few key presses.

Large and clear display shows all key parameters at a glance.

Pressure limits allows early identification of line occlusion.

The **air-in-line sensor** reliably detects air in the IV line, reducing the risk of infusing air into the patient.

Visual beacon ensures an alarm or a warning condition is visible from a distance.

Long-lasting internal battery charges automatically when connected to AC power.

Integrated pole clamp for secure fixing to vertical IV poles (15-40 mm diameter).

Intuitive colour-coded sets for easy loading and removal.

Complete dedicated set portfolio available at bd.com/uk/ivtherapy

Alaris™ Gateway Workstation creates an organised workspace and connects the pump to the hospital information systems.

Wi-Fi enabled for automatic transmitting of infusion data to the hospital information systems.

Dual Colour chevrons to help minimize programming errors.

Improved durability with a **more resilient material** to a variety of cleaning agents.

Able to **standardize protocols hospital wide** with 3,000 drug setups, 30 profiles and unlimited setups per profile in the drug library

Alaris™ Infusion Central provides a remote **central view** for nurses to monitor all infusions.

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