



BD Alaris™ neXus CC Syringe Pump

The Next-Gen BD syringe pump with flexible In-Line-Pressure Monitoring and Wi-Fi connectivity to support proactive vigilance in I.V. medication delivery¹⁺

Supports early intervention of occlusions and reduce complications^{1+^}

Every clinical situation is unique, and it can be challenging to identify the optimal occlusion alarm limit to promptly detect occlusions and associated IV complications.^{1,2}

In-line pressure monitoring can individualise occlusion pressure limit for each patient and significantly reduces the time to alarm.^{2,3 ***^}

A proprietary pressure trend graph provides further visual reference to support early clinical intervention of occlusions and related complications.*

Wi-Fi enabled powerful analytics**

Wireless connectivity enables remote deployment of drug library, 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 medication errors.^{4 ***^}

Pressure trend graphs*



Sudden and abrupt pressure increase may indicate issues such as hard occlusion



Slow and regular pressure increase may indicate issues such as soft occlusion













Succession of pressure peaks may indicate movement of pump, patient or catheters

Clinical versatility on demand

The BD Alaris™ neXus CC Syringe Pump offers SMART technology to recognise if a pressure sensing disc is in place. This allows clinicians the flexibility to use either a conventional I.V. extension set or the dedicated In-Line-Pressure Monitoring set if situation requires.



Features and benefits

-  **Activation of In-Line Pressure Monitoring on demand**, supports early intervention to help prevent potential complications related to occlusions.³
-  **Wi-Fi connectivity** enables automatic transmission of infusion data to the hospital Clinical Information Systems.**
-  **Flexible END RATE** 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. Inotropes).
-  Ability to program a **loading dose** and additional new dose units (kcal, mEq).
-  Support infusion precision with **BACK OFF** - an automatic feature that releases the pressure built up in the infusion system following an occlusion and minimises the post occlusion bolus.
-  **FAST START** a feature to automatically reduce the mechanical slack between the plunger mechanism and syringe at the start of an infusion.
-  **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.^
-  **BD Alaris™ MRI capsule** is available to support continuity of IV therapy during imaging situations.
-  **BD Alaris™ Gateway Workstation** creates an organised workspace and connects pumps to the hospital's Clinical Information Systems.**
-  **More resilient casing material** designed to improve durability to a variety of cleaning agents.++

Specifications

Infusion rate range

5 mL syringe 0.1 to 150 mL/h; 10 mL syringe 0.1 to 300 mL/h; 20 mL syringe 0.1 to 600 mL/h; 30 mL syringe 0.1 to 900 mL/h; 50 mL syringe 0.1 to 1200 mL/h; increments starting at 0.01 mL/h.

Volume to be infused (VTBI)

0.1 mL to 1000 mL, 1 minute to 24 hours.

Volume infused range

0.1 to 9,990 mL.

Bolus rate

5 mL syringe 10 to 150 mL/h; 10 mL syringe 10 to 300 mL/h; 20 mL syringe 10 to 600 mL/h; 30 mL syringe 10 to 900 mL/h; 50 mL syringe 10 to 1200 mL/h.

Purge specifications (syringe size specific)

100 to 500 mL/h; volume range 0.5 - 5.0 mL.

Keep vein open (KVO) infusion rate

0.1 to 2.5 mL/h.

Flow rate accuracy (mL/h mode)

±2% for rates ≥ 1.0 mL/h in accordance with IEC 60601-2-24.#

Pumping pressure limits (user selectable)

In-line pressure measurement with pressure disc; variable pressure; 1 to 1000 mmHg in 1 mmHg steps; auto pressure; 12 hour pressure trend graph.

Product Code

CCneXus1-5

+ In-Line-Pressure Monitoring is an optional feature that can be activated on demand by using an extension set with a pressure disc to enable real time pressure monitoring and improve[^] early detection of occlusions. Please refer to the Directions For Use for product details.

++ Compared to earlier generation BD infusion pumps such as BD Alaris™ GH Plus Syringe Pump.

* When In-Line-Pressure Monitoring is activated by using an infusion set with a pressure disc.

Press the Pressure Button on the front panel to access the trend display.

** When connected via BD Alaris™ Communication Engine.

*** When the Auto Set Pressure feature is enabled.

[^] Compared to conventional infusion pumps without in-line pressure monitoring, such as BD Alaris™ GH Plus Syringe Pump.

[^] Up to 3,000 setups per profile

Nominal conditions apply; Please refer to the Directions For Use for all product details.

1. Scott M Gouveia. In-line pressure monitoring in IV infusions. British Journal of Nursing, 2016; 25(19): S28-S33.

2. Stephen Keay and Chris Callander. The safe use of infusion devices. Continuing Education in Anaesthesia Critical Care & Pain. 2004; 4(3): 81-85.

3. BD Alaris™ neXusCC Syringe Pump Directions For Use, page 6 & 7.

4. Ohashi K, Dalleur O, Dykes PC, Bates DW. Benefits and risks of using smart pumps to reduce medication error rates: a systematic review. Drug Saftey. 2014, 37(12):1011-20.

Dimensions and weight

335 mm (w) x 121 mm (h) x 200 mm (d).

2.4 kg including carry handle, internal battery and integrated pole clamp.

LCD display

35 x 167 mm high resolution LCD display with LED backlight. Minimum viewing angle of 35°, legible from 3 m. Drug names up to 20 characters.

Battery specifications

NiMH – rechargeable and replaceable.

Mean battery life at 5.0 mL/h is 6 hours with Wi-Fi OFF, 4 hours with Wi-Fi ON.#
Recharge time 2.5 hours from discharge to 90% charge.

Power requirements

115-230V AC, 50-60 Hz, 30 VA (under maximum charging conditions), 10 VA (nominal).

Additional specifications

IP32 (IP33 with AC Power cable retainer kit); RS232; suitable for ground ambulance use (EN 1789); BD Alaris™ Gateway Workstation compatible.

Wi-Fi specifications

Wi-Fi Network Standards: 802.11a, 802.11b, 802.11g, 802.11n

Wireless bands: 2400-2483.5 MHz / 5150-5350 MHz and 5470-5725 MHz.

Alarms, warnings, prompts and advisories

Integrated amber/red beacon indicator, audible alarm and display covering the following alarm conditions: AC power failure and battery, drive disengaged, check syringe, near end of infusion, VTBI done, internal malfunction, pressure disc out, occlusion, battery low, end of infusion, attention (nurse call-back), titration - start to confirm and BD Guardrails™ Suite MX Software alerts.

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