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Text - PMS 294U



Graphic - 186C



PMS 129C



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QUICK REFERENCE GUIDE

WARNINGS:



- Proper operation of the BD Alaris™ System requires that you are familiar with related features, setup, programming, IV sets, and accessories. Read all instructions, including those for all attached module(s) before using the BD Alaris™ System.
- This guide is not intended to be comprehensive instructions for the setup and operation of the BD Alaris™ System. For complete instructions along with Warnings and Cautions, refer to *BD Alaris™ System User Manual* (v12).

Syringe Loading and Set-Up

Loading:

1. Open syringe barrel clamp (clear piece) until it clears syringe chamber.
2. Raise drive head (gray) to fully extended position.
3. Insert syringe barrel flange between barrel flange grippers.
4. Lock syringe in place by closing barrel clamp.
5. Twist gripper control clockwise, lower drive head, lock plunger in place with plunger grippers.

Removal:

1. Close tubing clamp.
2. Unlock door with key, open plunger grippers and syringe barrel clamp. (Silence safety alarm).
3. Remove syringe.

WARNING:



- Ensure that the displayed syringe manufacturer and syringe size match the installed syringe. Mismatches can impact flow rate accuracy.

WARNING:



- Ensure that patient is not connected when priming.
- Ensure that air is expelled from line prior to beginning infusion when priming (unexpelled air-in-line could have serious consequences).

Priming:

1. Select administration set and attach set to syringe.
2. If priming manually, express air from administration tubing set.
3. If priming using Alaris™ PCA Module (PCA Module), this feature is available when viewing Infusion Mode screen during programming of PCA Module. At this screen Press **OPTIONS**, then press **PRIME SET WITH SYRINGE**.
4. Once tubing set is primed, close slide clamp.

Detaching Module:

Use key to unlock door. Inside locate lever and depress. At the same time holding the module and moving the bottom of the module sideways and away from the BD Alaris™ PCU.



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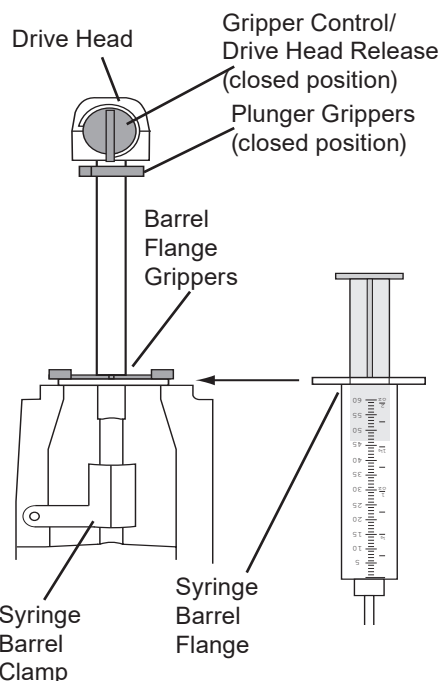


Alaris™ PCA Module v12

WARNING:



- Before loading or unloading the syringe, always turn off fluid flow to the patient, using the tubing clamp or stopcock. Uncontrolled fluid flow can occur when the infusion set is not clamped or turned off.



Programming an Infusion using BD Alaris™ Guardrails™ Suite MX Protection

Initial Set-Up:

1. Load syringe with administration set attached.
2. Press **SYSTEM ON** key.
3. Select **YES** or **NO** to "New Patient".
4. Select appropriate profile.

5. Press **CHANNEL SELECT** key.
6. Set key to Program position.
7. Press **CONFIRM** time setting.
8. Choose correct syringe type and size. (If syringe selection is not displayed press **ALL SYRINGES**).
9. Choose correct medication and concentration.
10. Respond to appropriate clinical advisory.
11. Review monitoring alarm limits (if applicable).
12. At "Infusion Mode" screen: To Prime, press **OPTIONS** key.

WARNING:



- Ensure that patient is not connected when priming.
- Ensure that air is expelled from line prior to beginning infusion when priming (unexpelled air-in-line could have serious consequences).

13. Press **PRIME SET WITH SYRINGE**.
14. Press and hold **PRIME** key to prime tubing.
15. Press **EXIT** when prime is complete.
16. Choose desired Infusion Mode and follow on-screen prompts.
17. Close and lock door.
18. Attach administration set tubing set to patient.
19. Review settings and press **START**.

Change Syringe:

1. Press **PAUSE**.

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2. Close tubing clamp.
3. Use key and unlock door.
4. Remove old syringe.
5. Press **SILENCE**.
6. Attach new syringe to tubing.
7. Load new syringe.
8. Set key to Program position, close door.
9. Press **CHANNEL SELECT**.
10. Choose correct syringe type and size. (If syringe selection is not displayed press **ALL SYRINGES**).
11. Press **CONFIRM**.
12. Press **RESTORE** if same drug and concentration.
13. Verify drug and concentration.
14. Verify current settings.
15. Lock door and open tubing clamp.
16. Review settings and press **START**.

Change Program/Mode:

1. Press **CHANNEL SELECT** key.
2. Press **PROGRAM**.
3. Set key to "Program" position or enter authorization code (if enabled).
4. Press **CHANGE MODE** soft key.
5. Choose desired infusion mode and follow onscreen prompts.

Reviewing or Changing PCA Pause Alarm Limits:

1. Press **CHANNEL SELECT** key.
2. Press **OPTIONS** key.
3. Select **PCA Pause Limits**.

4. Review change limits per hospital protocol.
5. Press **CONFIRM** and **START**.
Note: This function requires use of monitoring module(s).

Disabling PCA Pause Alarm:

1. Press **CHANNEL SELECT** key.
2. Press **OPTIONS** key.
3. Select **PCA Pause Limits**.
4. Press **Disable SpO2/Disable EtCO2**.
5. Press **CONFIRM** and **START**.

Beginning of Shift/Summary Review:

1. Press **CHANNEL SELECT** key.
2. Verify syringe type/size, drug/ concentration and settings.
3. Press **START** key.

Patient History/End of Shift/24hr History

1. Press **CHANNEL SELECT** key.
2. Press **OPTIONS**.
3. Press **PATIENT HISTORY**.
4. Review drug totals.
5. Press **ZOOM** key (time interval) as appropriate.
6. To clear patient history press **CLEAR HISTORY**.
7. Press **YES** or **NO**.
8. To view 24 hour totals: Press **24 h Totals**.
9. Press **EXIT**.
10. Press **START**.

PCA/Monitoring Trend Data

Note: This function requires use of monitoring module.

1. Press **CHANNEL SELECT** on the Monitoring Module.
2. Press **OPTIONS**.
3. Press **PCA/Monitoring Trend data**.
4. To exit: Press **MAIN**.
5. Press **Main Screen**.

Give a Bolus Dose

1. Press **CHANNEL SELECT**.
2. Press **Bolus Dose**.
3. Set key to Program position or enter authorization code (if enabled).
4. Enter bolus dose amount.
5. Lock door.
6. Press **CONFIRM**.
7. Review settings and press **START**.

Stopping Bolus, Loading, or PCA Dose

1. Press **CHANNEL SELECT** key.
2. Press **Stop Bolus/Loading or PCA**.
3. Press **YES** or **NO**.

Note: Programmed settings will resume.

Change Dose Request Cord Setting

1. Press **CHANNEL SELECT** key.
2. Press **OPTIONS**.
3. Press **Dose Request Set-up**.

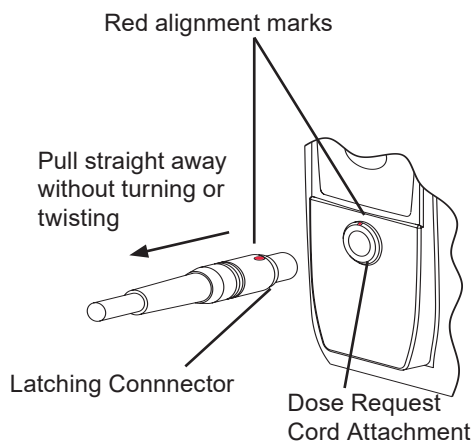
4. Choose desired Dose Cord Profile. (1=light flashes, 2=light on, 3=light off)
5. Press **CONFIRM**.
6. Press **START**.

Attach Dose Request Cord

1. Align red mark on latching connector with red mark on Dose Request Cord attachment.
2. Insert latching connector on the cord into Dose Request Cord attachment on PCA Module.

Detach Dose Request Cord

Hold body of latching connector on the cord and pull straight away from Dose Request Cord attachment on the PCA Module.



Alarms and Troubleshooting: Alarms

Alarm	Meaning	Response
CHECK SYRINGE	The lever, plunger, and/or barrel clamp is not engaged properly.	Inspect the syringe or PCA Module and adjust the appropriate sensor as needed. Reselect the syringe, restore or reprogram and start or restart the infusion.
PCA PAUSED - LOCKOUT	The PCA infusion has paused due to a decline in respiratory status.	Assess patient status per hospital policy. Press CONFIRM once patient's status and monitoring values have been addressed. Press RESTART key per hospital policy. To view trigger of PCA Pause Alarm, Press CHANNEL SELECT>OPTIONS>DRUG EVENT HISTORY, Press the Up/Down key to view the text for monitoring value causing PCA Module to pause. Press EXIT and then START.

Alarms and Troubleshooting: Alarms

Alarm	Meaning	Response
CHANNEL ERROR	A malfunction is detected on the module.	Clear the channel error pop-up by pressing the CONFIRM soft key. Power down the system, or continue use of functional units, or replace the affected channel with an operable module.
OCCLUSION	Excessive force is detected on the syringe driver head release.	Silence alarm and continue normal operation, press CONFIRM soft key.
OCCLUDED - PATIENT SIDE	Increased back pressure sensed while infusing. The infusion stops on affected module.	Clear the occlusion. Press the RESTART key, or press the CHANNEL SELECT key and then the START soft key.

Messages

Messages	Meaning	Response
Max Limit Reached	Programmed Max Limit has been reached over time period specified. Infusion paused until time limit has expired.	To silence alarm, press SILENCE key. NOTE: The device will re-alarm if the dose request cord is pressed again while in a Max Limit state. To change Max Limit, press CHANNEL SELECT , press PROGRAM soft key and unlock door or enter Authorization Code applicable for current Security Access Level.
Near End of Infusion (NEOI)	Syringe almost empty. This is a timed event that can be set. To set or change this option, see the Configurable Settings section of the BD Alaris™ Guardrails™ Suite MX User Manual.	To silence alarm, press SILENCE key. The module remains functional and continues infusion.

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