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QUICK REFERENCE GUIDE

Alaris[™] PC unit (PC unit) and Alaris[™] Pump module (Pump module)

WARNINGS:

- To ensure proper operation of the Alaris[™] System, you must be familiar with related features, setup, programming, and IV sets and accessories.
- This guide is not intended to be comprehensive instructions for the setup and operation of the Alaris[™] System. For complete instructions, along with Warnings and Cautions, refer to the Alaris[™] System User Manual (v9).

Programming an Infusion Using Guardrails[™] Suite MX Protection

Using Guardrails[™] drug library:

- 1. Press CHANNEL SELECT key.
- 2. Press Guardrails Drugs soft key.
- 3. Press soft key next to desired drug.
 - An optional hospital-defined therapy or clinical indication for delivery of this infusion might appear.
 - A weight-based, non-weightbased, or BSA-based option for delivery of this infusion might appear.
 - Multiple concentration listings for delivery of this infusion might appear.
- 4. Confirm selected drug and concentration.

If Yes was selected and facility defined a Guardrails[™] clinical advisory for that drug, a message appears. To indicate information has been noted and continue programming, press **CONFIRM** soft key.

- Enter patient weight or BSA if required. If setup is correct, press NEXT soft key.
- Press either RATE or DOSE soft key and enter desired value. This value may be pre-populated and edited if appropriate.

OR

Press **DURATION** soft key and enter desired value. This value may be pre-populated and edited if appropriate. To enter rate, press **RATE VOLUME** soft key and enter infusion rate.



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Using Guardrails[™] drug library: (Continued)

- Press VTBI soft key and enter desired VTBI. VTBI may be prepopulated and value edited if appropriate.
- 8. Press START soft key.

Bolus Dose:

The bolus option appears on the Continuous Infusion page when a VTBI is entered.

- 1. Press **BOLUS** soft key.
- Use numeric keys to enter desired bolus dose. This value may be pre-populated and edited if appropriate. If applicable, enter patient weight.
- Press DURATION soft key and use numeric data entry keys to enter duration—this value may be pre-populated and edited if appropriate—or press Rapid Bolus soft key.

If **Rapid Bolus** is selected, the bolus dose is delivered at the hospital-established fastest rate for that specific drug.

- 4. Press **START** soft key to begin bolus infusion.
- During any bolus infusion, press CHANNEL SELECT key to see detail screen.

Using Guardrails[™] IV fluids:

1. Press CHANNEL SELECT key.

- Press Guardrails[™] IV Fluid soft key.
- 3. Press soft key next to desired fluid.
- 4. Confirm selected fluid.
- 5. Press **RATE** soft key and enter rate.
- Press VTBI soft key and enter desired VTBI.
- 7. Press **START** soft key.

Secondary Piggyback Infusion Using Guardrails[™] drug library:

- 1. Program primary infusion.
- 2. Press CHANNEL SELECT key.
- 3. Press SECONDARY soft key.
- 4. Press soft key next to desired drug.

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- 5. Confirm selected drug and concentration.
- Enter patient weight or BSA if required. If setup is correct, press NEXT soft key.
- 7. Press **DURATION** soft key and enter desired value. To enter rate, press **RATE VOLUME** soft key.
- VTBI pre-populates with diluent volume. To edit, press VTBI soft key and enter desired VTBI.

"Verify secondary clamp is open, then press START" prompt appears.

9. Open clamp on secondary set.

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WARNING:

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If the secondary clamp is <u>not</u> open, the fluid is delivered from the primary container.

10. Press **START** soft key.

When an infusion is started outside of a Guardrails[™] limit, a **G** icon displays. To view Guardrails[™] limit information, press soft key next to **G** icon.

11. Verify that drops are falling from the secondary drip chamber.

Programming an Infusion Without Guardrails[™] Suite MX Protection

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1. Press CHANNEL SELECT key.

Drug Calculation:

- 2. Press Guardrails[™] Drugs soft key.
- 3. Press DRUG CALC soft key.
- 4. Enter amount of drug in fluid container.
- Press drug-specific unit-of-measure soft key.
- 6. Enter diluent volume.
- 7. Press PATIENT WEIGHT soft key.
- Press Yes or No soft key to indicate whether or not patient weight is to be used in drug calculation.
- 9. If applicable, enter patient weight.

- 10. Press TIME UNITS soft key. Press Min, Hour, or Day soft key to select appropriate time measurement.
- 11. Press appropriate **DOSING UNITS** soft key.
- 12. Press **NEXT** soft key to confirm parameters.
- 13. Press either **RATE** or **DOSE** soft key and enter desired value.
- 14. Press VTBI soft key and enter VTBI.
- 15. Press **START** soft key.

Basic Infusion:

- 1. Press CHANNEL SELECT key.
- 2. Press Basic Infusion soft key.
- 3. Press **RATE** soft key and enter rate.

To enter duration press **VOLUME DURATION** soft key and enter duration value.

- Press VTBI soft key and enter desired VTBI.
- 5. Press **START** soft key.

Secondary Piggyback Infusion:

- 1. Program primary infusion.
- 2. Press CHANNEL SELECT key.
- 3. Press SECONDARY soft key.
- 4. Press BASIC SECONDARY soft key.
- Press RATE soft key and enter desired rate.

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Secondary Piggyback Infusion: (Continued)

 Press VTBI soft key and enter desired VTBI.

> "Verify secondary clamp is open, then press START" prompt appears.

7. Open clamp on secondary set.

WARNING:

If the secondary clamp is <u>not</u> open, the fluid is delivered from the primary container.

- 8. Press **START** soft key.
- 9. Verify that drops are falling from the secondary drip chamber.

Restarting an Infusion Following an Infusion Complete - KVO

- 1. Press CHANNEL SELECT key.
- 2. Press **Restore** soft key to restore previous VTBI or press **VTBI** soft key to enter a new VTBI.
- 3. Press **START** soft key.

Channel Labels

Labeling a channel and then programming an infusion:

- 1. Press CHANNEL SELECT key.
- 2. Press Basic Infusion soft key.
- 3. Press **OPTIONS** key.
- 4. Press Channel Labels soft key.
- 5. Press soft key next to applicable channel label.

6. Program infusion.

Pressure Monitoring—Changing Selectable Pressure

This option is not available on an Alaris[™] Syringe module.

- 1. Press CHANNEL SELECT key.
- 2. Press OPTIONS key.
- 3. Press Pressure Limit soft key.
- 4. Press Selectable soft key.
- Press either Up or Down soft key to increase/decrease occlusion pressure threshold.
- 6. Press CONFIRM soft key.
- 7. Press START soft key.

Powering Down

To power down individual channels, press and hold **CHANNEL OFF** key for approximately 1.5 seconds, until a beep is heard. ۲

System Error

If an error is detected on the PC unit, operation continues on all channels. When appropriate for the patient, power down the system and replace the PC unit with an operational instrument. Service by qualified personnel is required.

Loading and Removing Administration Set

WARNINGS:

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- **To prevent free-flow**, close the set roller clamp when the safety clamp fitment is open.
- **Do not touch** the set tubing or upper fitment while closing the door. Failure to follow this instruction can result in infusion rate inaccuracy.

Loading:

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1. Lower and position upper fitment into fitment recess.



2. Press Safety Clamp fitment into recess in Pump module.



3. Firmly press tubing into Air-in-Line Sensor.

Air-in-Line Sensor

Removing:

Upper Fitment

- 1. Close roller clamp.
- 2. Open Pump module door and gently pull tubing below Air-in-Line Sensor forward and out to remove Safety Clamp fitment.
- 3. Lift upper fitment vertically from upper fitment recess.

PC Unit (Models 8000 and 8015) / Pump Module v9

Troubleshooting

Alarms—Pump Module

Alarm	Meaning	Response
Accumulated Air-in-Line	A large number of air bubbles smaller than current air-in-line limit has recently passed detector.	Clear air from line. To continue infusion, press RESET soft key and then RESTART key.
Air-in-Line	Air has been detected in administration set during an infusion. Infusion stops on affected module.	Ensure that tubing is properly installed in Air-in-Line Detector. If air is present, clear air from administration set. Press RESTART key, or press CHANNEL SELECT key and then START soft key.
Channel Disconnected	Module disconnected while in operation or have a communication problem.	To silence alarm and clear message from screen, press CONFIRM soft key. Reattach module if desired, ensuring it is securely "clicked" into place at Module Release Latch. If alarm is still present, replace module.
Check IV Set	Administration set is not properly installed. Infusion stops on affected module.	Close roller clamp, remove and reinstall administration set, close door, open roller clamp, and then press RESTART key.
Checking Line	Patient-side occlusion occurred; Auto-Restart feature monitoring downstream pressure to determine if infusion can continue.	None
Close Door	Door opened during an infusion. Infusion stops on affected module.	Close door. Press RESTART key, or press CHANNEL SELECT key and then START soft key.

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Alarms—Pump Module (Continued)

Alarm	Meaning	Response
Occluded - Fluid Side/Empty Container	Indicates either upstream occlusion or empty container. Infusion stops on affected module.	Clear occlusion on fluid side of instrument. If necessary, refill drip chamber. Press RESTART key, or press CHANNEL SELECT key and then START soft key.
Occluded - Patient Side	Increased back pressure sensed while infusing in pump delivery mode. Infusion stops on affected module.	Clear occlusion. Press RESTART key, or press CHANNEL SELECT key and then START soft key.
Partial Occlusion - Patient Side	Partial occlusion of patient side of IV line detected by Auto- Restart feature.	Clear occlusion. Press RESTART key, or press CHANNEL SELECT key and then START soft key.
Pump Chamber Blocked	Tubing blocked inside Pump module (in pump chamber).	1. Close roller clamp and open door.
		2. Remove tubing.
		 Massage tubing from top to bottom to restore flow.
		4. Reload set and close door.
		5. Press NEXT soft key.
		6. Press CONFIRM soft key.
		7. Open roller clamp and press RESTART key.
		8. Verify flow in drip chamber after restarting infusion.
		 Change set if not able to establish flow.

PC Unit (Models 8000 and 8015) / Pump Module v9

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Troubleshooting (Continued)

Alarms—Pump Module (Continued)

Alarm	Meaning	Response
Restart Channel	Door opened and closed during an infusion. Infusion stops on affected module.	Close door. Press RESTART key, or press CHANNEL SELECT key and then START soft key.
	Module paused for 2 minutes.	Press RESTART key, or press CHANNEL SELECT key and then START soft key.
Safety Clamp Open - Close Door	Safety clamp device is in open position while door is open.	Close roller clamp on administration set or close door.

Errors—PC Unit

Error	Meaning	Response
Hardware Detected Error	Error detected on PC unit. Operation stops on all modules.	Replace PC unit.
System Error	Error detected on PC unit. Operation continues on all attached modules.	To continue temporary operation, press SILENCE key. Replace PC unit.

Errors—Pump Module

Error	Meaning	Response
Channel Error	Error detected. Operation stops on affected module.	To silence alarm and continue operation of unaffected module(s), press CONFIRM soft key. Replace module, as needed.

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