Alaris® PCA Module Guide

Syringe Loading and Set-Up

WARNING: TO PREVENT UNREGULATED FLOW. CLOSE SET TUBING CLAMP BEFORE LOADING OR UNLOADING SYRINGE.

Loading:

1. Open syringe barrel clamp (clear piece) until it clears syringe chamber.

QD

- 2. Raise drive head (grav) to fully extended position.
- 3. Insert syringe barrel flange between barrel flange grippers (see drawing).
- 4. Lock syringe in place by closing barrel
- clamp. 5. Twist gripper control clockwise, lower drive head, lock plunger in place with plunger grippers.

Priming:

1. If priming using 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.

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2. Once tubing set is primed, close slide clamp,

Note: At the start of an infusion program, the system prompts to select and confirm syringe type and size. Ensure displayed syringe manufacturer and size correctly identifies the installed syringe.

Programming Guide

Initial Set-Up:

- 1. Select administration set and attach set to svringe.
- 2. If priming manually, express air from administration tubing set. 3. Load syringe with administration set attached.
- 4. Press SYSTEM ON key and select YES or NO to "New Patient"
- 5. Select appropriate profile.
- 6. Press CHANNEL SELECT key and set key to "Program"
- nosition 7. Press CONFIRM time setting and choose correct syringe

type and size

Note: If installed svringe is not listed, press ALL SYRINGES and chose matching installed syringe type and size.

- 8. Choose correct medication and concentration.
- 9. At "Infusion Mode" screen: To Prime, press OPTIONS key,
- 10. Press PRIME SET WITH SYRINGE.
- 11. Press and hold **PRIME** key to prime tubing.
- Note: Do not prime while attached to patient.
- 12. Press EXIT when prime is complete. 13. Choose desired Infusion Mode and follow on-screen prompts.
- 14. Close and lock door and attach administration set tubing set to patient.

15. Review settings and press START.

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Programming PCA with PCA Pause Protocol Enabled:

- 1. Perform steps 1-10 of Initial Set-Up in previous section and continue with following steps.
- 2. Review Clinical Advisory "Attach an SPO2 or EtCO2 Module Now"

3 Press CONFIRM

- Note: If a monitoring module is not attached and started. PCA Pause Protocol WILL NOT activate.
- 4. Choose desired Infusion Mode and follow onscreen prompts.
- 5. Press NEXT key to verify medication parameters.
- 6. Review Clinical Advisory "PCA Pause Limits Should be Reviewed"

7 Press CONFIRM

8. Choose desired Infusion Mode and follow onscreen prompts.

Change Syringe:

- 1. Press PAUSE and close tubing clamp.
- 2. Use key and unlock door and remove old syringe. 3 Press SIL ENCE
- 4. Attach new syringe to tubing and load new syringe.
- 5. Set key to "Program" position and close door.
- 6. Press CHANNEL SELECT key.
- 7. Choose correct syringe type and size.
- 8. Press CONFIRM.
- 9. Press RESTORE if same drug and concentration. 10. Verify drug and concentration and current settings.
- 11. Lock door and open tubing clamp.
- 12. 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).
- WARNING: DO NOT PRIME WHILE ATTACHED TO PATIENT! 4. Choose desired infusion mode and follow onscreen prompts.

Beginning of Shift/Summary Review:

- 1. Press CHANNEL SELECT key and verify settings.
- 2. Press START key.

Patient History/End of Shift/24hr History:

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

Operator Precautions: For proper operation of the Alaris® System (formerly Medley®System) the user must be familiar with the features, disposables, administration sets, set-up and programming,

This guide includes selected information and suggestions and is not intended to be comprehensive instructions for the set-up and operation of the Alaris® System. For complete instructions along with Warnings and Cautions, refer to Alaris® System Directions for Use (v8).

+ CATHOLIC HEALTH

Saint Joseph Health System

PCA/Monitoring Trend Data

- Note: This function requires use of Alaris® monitoring module(s)
- 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 key.
- 2. Press Bolus Dose.
- 3. Set key to Program position or enter authorization code (if enabled)
- 4. Enter bolus dose amount and lock door.
- 5. Press CONFIRM.
- 6. Review settings and press START.

Stop 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

Troubleshooting

Alarm/

Alerts

Check

Svringe

PCA

Pause

Alarm

Drive Not

Engaged

Max Limit

Reached

Module

Enforce-

Near End

(NEOI)

Syringe

page 2

Empty

ment

3. Press "Dose Request Set-up". 4. Choose desired Dose Cord Profile. (1=light flashes, 2=light on.3=light off).

· Plunger grippers opened during infusion and then

Svringe barrel clamp opened during infusion and

· Syringe plunger not captured while in idle mode. Sys-

tem alarms immediately to indicate potential siphoning

condition. If security door is closed and syringe plunger

is not captured, the system will immediately alarm.

PCA infusion has paused due to a decline in respira-

Indicates the maximum amount of drug delivered based

A user message will appear on the screen when the

Near End of Infusion and remaining VTBI will alter-

nate on screen until svringe is empty. Alert message

module. The PCA module remains functional and will

Alarm message Syringe Empty will scroll in channel

message display on the PCA module

will scroll in channel message display on the PCA

PCA module is NOT located directly to the right of the

closed. Infusion stops on affected channel.

Drive system disengaged during operation.

on Maximum Hourly Limit field.

Alaris® PC unit.

continue infusion

Meaning

then closed.

tory status.

5. Press CONFIRM and press START.

Change PCA Pause Alarm Limits

- 1. Press CHANNEL SELECT key. 2. Press OPTIONS.
- 3. Press "PCA Pause Limits".
- 4. Choose desired parameter and enter value.

6. Press CONFIRM and press START.

Attaching and Detaching Dose Request Cord

5. Follow on screen prompts.

Access Drug Event History

1. Press CHANNEL SELECT key.

To attach the Dose Request Cord:

To detach the Dose Request Cord:

attachment

Detaching Module:

("Alaris® PC unit").

Alerts and Alarms (NOTE: During alarm state - PCA module no longer infusing).

Response

over syringe plunger.

maximum limit reached alarm

created 0808

silent until Svringe Empty alarm sounds.

silent approximately 2 minutes and will re-sound.

Note: If acceptable range value is not within hospital defined range a prompt is provided.

2. Press OPTIONS then press DRUG EVENT HISTORY.

Insert latching connector on the cord into Dose Request Cord attach-

ment on the PCA module. The red marking on the latching connector

should be aligned with the red marking on the Dose Request Cord

Hold the body of latching connector on the Dose Request Cord and pull

Use key to unlock door. Inside locate black lever and depress. At the

same time, hold the PCA module and move the bottom of the PCA

module sideways and away from the Alaris® PC Point-of-Care unit

Securely lock plunger grippers, press CHANNEL SELECT key, and

START key. Check for potential siphoning. Ensure administration set

clamp (roller/slide) is in closed position. Securely lock plunger grippers

Assess patient status per hospital policy. Press CONFIRM once patient

status and monitoring values have been addressed. Press RESTART

key per hospital policy. To view trigger of PCA Pause Alarm, Press

CHANNEL SELECT, Press, OPTIONS, Press DRUG EVENT HIS-

PCA Module to pause. Press EXIT and then START

TORY. Press Up/Down key to view text for monitoring value causing

Open and close plunger grippers. Ensure syringe is properly installed.

To silence safety alarm tone, press SILENCE key. PCA module will remain

Remove the PCA module and attach directly to the right of the Alaris® PC unit.

To silence safety alert tone, press SILENCE key, PCA module will remain

To silence safety alarm tone, press SILENCE key. PCA module will remain

silent. Alarm tone will re-sound if additional dose is requested during

reselect syringe. Securely lock syringe barrel clamp and press RE-

straight away from the PCA module, without twisting or turning.

Alaris® EtCO2 Module Guide

Setting Alarm Limits:

- 1. Press CHANNEL SELECT key
- Press LIMITS 2.
- 3. Select limit parameter to be changed.
- 4. Enter a numeric value using keypad or up/down arrow keys.
- 5. Press CONFIRM 6 Press MAIN SCREEN
- Trend Data:
- 1. Press CHANNEL SELECT key.
- 2. Select TREND.
- 3. Press PAGE UP and PAGE DOWN to navigate through trend data pages. To move cursor bar press up or down arrow keys.
- 4 Press ZOOM to change time period.
- To exit press EtCO2 Main. 5.
- 6. Press MAIN SCREEN

PCA/EtCO2 Trend Data:

- Note: This function requires use of Alaris® PCA module.
- 1. Press CHANNEL SELECT key. 2. Press OPTIONS
- 3. Select PCA/EtCO2 Trend Data. Navigate as described above in section titled Trend Data

- 4. To exit press EtCO2 Main.
- Press MAIN SCREEN
- **Change Waveform Height:**
- 1. Press CHANNEL SELECT key.
- 2. Press OPTIONS. Select WAVEFORM HEIGHT. 3.
- Select 60mmHg or 99mmHg. 4.
- 5. Press MAIN SCREEN.
- **Change Waveform Time Scale:**
- Press CHANNEL SELECT key. 1.
- Press OPTIONS 2.
- Select WAVEFORM TIME SCALE. 3.
- 4. Select 5 or 10 seconds
 - (for lower respiratory rates select 10 seconds).
- 5. Press MAIN SCREEN.

Pre-Silencing Alarm:

1. Press SILENCE to pre-silence monitoring alarms for 2 minutes.

Note: Infusion alarms will not be silenced.

Troubleshooting : Alarms / Messages		
High Priority Alarm	Meaning/ Causes	Response
No Breath Detected	 Patient is not breathing Disposable is not properly attached to patient and/or device Disposable is not detecting exhaled breath (shallow breath) 	 Assess patient, check disposable. Consider using different disposable type Follow hospital protocol actions.
High EtCO2	 Patient has true measurement of high EtCO2 Fever or hypermetabolic state Disposable is not properly attached to patient 	
Low EtCO2	 Patient has true measurement of low EtCO2 Disposable not correctly attached to patient or securely connected to module 	 Assess patient, check disposable Compare value to baseline Follow hospital protocol actions.
High RR	Respiratory Rate is above the specified limit	
Low RR	Respiratory Rate is below the specified limit	
High FiCO2	 Patient is inspiring exhaled CO2 or disposable not properly attached to patient O2 mask may not be properly attached (if patient is wearing an O2 mask) O2 flow to mask may have stopped Drapes or covers may be over patient's face 	 Assess patient, check disposable, Check O2 flow Check mask and/or drape position Follow hospital protocol actions
Disconnect Occluded Disposable	Purging operation failed The disposable is occluded or needs to be reset.	 Try disconnecting disposable and then reattach. If the device again reads DISCONNECT OCCLUDED DISPOSABLE, Obtain and attach a new disposable.
Autozero (in progress)	The module is performing an autozero calibration. During this time no data is obtained	Monitoring will automatically resume when completed. No intervention is necessary.
Clearing Disposable	The module is trying to clear the clogged disposable. If cleared, the module will automatically resume monitoring.	If unable to clear, the module will go into a DISCONNECT OCCLUDED DISPOSABLE alarm.
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ormal Ventilation; 35-45 mmHg)

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Normal Waveform

Normal /Abnormal Waveform

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Always follow hospital protocols •Assess ABCs • Encourage patient to take deep breaths • Perform a head tilt or chin lift; Always follow hospital protocols •Assess ABCs • Stimulate patient • Open aliway • Notity RT or MD Check position of cannula • Notify RT or MD head or neck alignment medication or sedate No Breath or Apnea
Very shallow breathing
Over medication or sedate
Displaced cannula Low tidal volume Poor I
 Over I Irregular breathing, possible Slow breathing, Low EtCO2 followed by deep breath (see pointing arrow) audible sound or snoring, EtCO2 may be above or below baseline Rapid breathing, Low EtCO2 Slow breathing, High EtCO2 ō

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Sudden loss of EtCO2 reading, Very shallow or ni respiratory rate pattern observed

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