



QUICK REFERENCE GUIDE

WARNINGS:



- To ensure proper operation of the Alaris™ System, you must be familiar with related features, disposables, administration sets,set-up, and programming.
- 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 Alaris™ System User Manual (v9).

Programming Setting Alarm Limits

- 1. Press CHANNEL SELECT key.
- 2. Press Limits.
- 3. Select limit to be changed.
- 4. Enter a numeric value using keypad or up/down arrow keys.
- 5. Press CONFIRM.

Trend Data

- 1. Select TREND.
- Press PAGE UP and PAGE DOWN to navigate through trend data pages. To move cursor bar press up or down arrow keys.
- 3. Press **ZOOM** to change time period.
- 4. To exit press **EtCO₂ Main**.

PCA/EtCO₂ Trend Data (Available only with an Alaris™ PCA Module)

1. Press OPTIONS.



Change Waveform Height

- 1. Press OPTIONS.
- 2. Select WAVEFORM HEIGHT.
- 3. Select 60mmHg or 99mmHg.

Change Waveform Time Scale

- 1. Press OPTIONS.
- Select WAVEFORM TIME SCALE.
- Select 5 or 10 seconds (for lower respiratory rates select 10 seconds).

Pre-Silencing Alarm

Press SILENCE to pre-silence monitoring alarms for two minutes.

Note: Infusion alarms will not be silenced.



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Alarms

High Priority Alarm	Meaning	Response
No Breath Detected	No breath has been detected for a specified period of time.	Assess patient condition. Check Microstream® Disposable. Confirm correct disposable is chosen. Confirm correct disposable placement.
High EtCO ₂	EtCO ₂ value is above the specified limit.	Assess patient condition. Confirm correct alarm limit values are selected.
Low EtCO ₂	EtCO ₂ value is below the specified limit.	Assess patient condition. Confirm correct alarm limit values are selected.
High RR	Respiratory Rate is above the specified limit.	Assess patient condition. Confirm correct alarm limit values are selected.
Low RR	Respiratory Rate is below the specified limit.	Assess patient condition. Confirm correct alarm limit values are selected.
High FiCO ₂	FiCO2 value is above the specified limit.	Assess patient condition. Confirm correct alarm limit values are selected.
Disconnect Occluded Disposable	Purging operation failed.	Check Microstream® Disposable. Obtain a new Microstream® Disposable. Attach Microstream® Disposable to patient and module.









Messages

Message	Meaning	Response
Autozero (in progress)	EtCO ₂ Module performs a baseline by sampling CO ₂ present in ambient air.	Wait for the module to complete its auto-zeroing function. After the auto-zero cycle is complete, the module will begin measurement again. No user intervention is required.
Clearing Disposable	Microstream® Disposable has become blocked.	Check Microstream® Disposable. Wait for purging to complete.









EtCO₂ Waveform Examples

Normal Waveform Example = Normal Ventilation; 35-45 mmHg

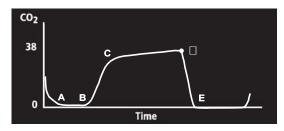
A- B: Baseline period of no CO₂, end of inhalation

B- C: Rapid rise in CO₂

C- D: Alveolar plateau

D: End of expiration, end tidal CO₂ (EtCO₂)

D-E: Inhalation

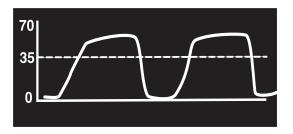


Abnormal Waveform Examples - Not necessarily associated with alarms

Hypoventilation

Possible Causes:

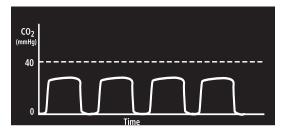
• Overmedication



Hyperventilation

Possible Causes:

Respiratory distress







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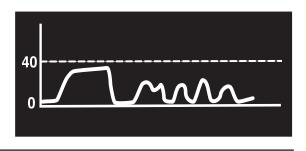
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EtCO₂ Waveform Examples (Continued)

Abnormal Waveform Examples - Not necessarily associated with alarms

Partial Airway Obstruction

- **Possible Causes:**
- Relaxation of upper airway
- · Head position

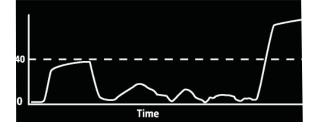


Hypoventilation with Shallow Breathing

Possible Causes:

- · Medication effect
- Low tidal volume

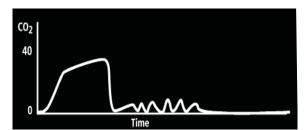
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No Breath Detected

Possible Causes:

- Apnea
- Very shallow breathing
- Overmedication
- Displaced cannula



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