PCA Pause Protocol and Alaris™ $EtCO_2$ Module alarm settings

Alaris™ $EtCO_2$ Module alarm setting	The following parameter is configured for the Alaris™ $EtCO_2$ Module *(regardless if PCA Pause Protocol is utilized)*:
Respiratory rate low *(bpm)*	This is the low alarm limit for the respiratory rate. **If the patient's respiratory rate *exceeds and sustains* the value, the system will alarm.** • If the PCA Pause Protocol feature is used—the respiratory rate low needs to be **greater** than the PCA Pause Protocol parameters *(see below)*.
PCA Pause Protocol parameters	**The following parameters can be set if PCA Pause Protocol is enabled for the Alaris™ $EtCO_2$ Module:**
Initial value *(bpm)*	This is the respiratory rate value that pauses the Alaris™ PCA Module: **If the patient's respiratory rate *exceeds and sustains* this value, the PCA infusion will *pause* and the system will alarm.** • This initial value must be **greater than or equal** to the respiratory rate lower limit *(bpm)*. • This initial value must be **less than** the respiratory rate low value on the $EtCO_2$ module. • **This value may be edited** by the user at the bedside but not to a value lower than the respiratory rate lower limit.
Respiratory rate lower limit *(bpm)*	This value represents the hospital's lowest acceptable respiratory rate value that pauses the PCA module. • The respiratory rate lower limit must be **less than or equal** to the initial value. • **This value cannot be edited** at the beside.

$EtCO_2$ alarm and PCA Pause Protocol settings examples

Example 1:

- respiratory rate low = 7
- respiratory rate initial value = 5 *(pauses PCA module)*
- respiratory rate lower limit = 4

Example 2:

- respiratory rate low = 7
- respiratory rate initial value = 6 *(pauses PCA module)*
- respiratory rate lower limit = 5

For product support, contact Customer Advocacy at **888.812.3266** or **customerfeedback@bd.com**
For technical support, contact Instrument Technical Support at **866.488.1408.**
For product orders, contact Customer Order Management at **800.482.4822.**
⚠ See reverse side for applicable warnings and cautions.
For complete instructions, refer to the BD Alaris™ System User Manual at **bd.com**

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⚠ Warnings and cautions

WARNINGS

- $EtCO_2$ and respiratory rate readings can be affected by certain ambient environmental and patient conditions.
- The $EtCO_2$ module is not to be used as an apnea monitor.
- The $EtCO_2$ module is intended only as an adjunct in patient assessment. It must be used in conjunction with clinical signs and symptoms.
- If uncertain about measurement accuracy, assess patient's condition and vital signs by alternate means, then ensure that $EtCO_2$ module is functioning correctly.
- Do not lift the $EtCO_2$ module by Microstream Disposable because it could disconnect from the instrument, causing it to drop on the patient. Do not place the $EtCO_2$ module in any position that could cause it to fall onto the patient.
- Do not use the $EtCO_2$ module or Microstream Disposable inside a hyperbaric chamber.
- Respond immediately to system alarms; patient monitoring can cease under certain alarm conditions.
- The PCA module is designed to stop fluid flow under alarm conditions. Periodic patient monitoring must be performed to ensure that the infusion is proceeding as expected. It is a positive displacement delivery system, capable of developing positive fluid pressures to overcome widely varying resistances to flow encountered in practice, including resistances to flow imposed by small gauge catheters, filters and intra-arterial infusion. It is neither designed nor intended to detect infiltrations and does not alarm under infiltration conditions.
- Each time the Alaris™ System is turned on, verify and/or set the monitoring mode, resistance alert, and/or pressure alarm limit. If the monitoring mode, resistance alert, and/or pressure alarm limit are not verified, the instrument might not operate within the desired occlusion detection parameter(s).

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