



Patient Monitor B125/B105

Quick Reference Guide



Global Customer Education

gehealthcare.com

Notice

The materials contained in this document are intended for educational purposes only. This document does not establish specifications, operating procedures or maintenance methods for any of the products referenced. Always refer to the official written materials (labeling) provided with the product for specifications, operating procedures and maintenance requirements.

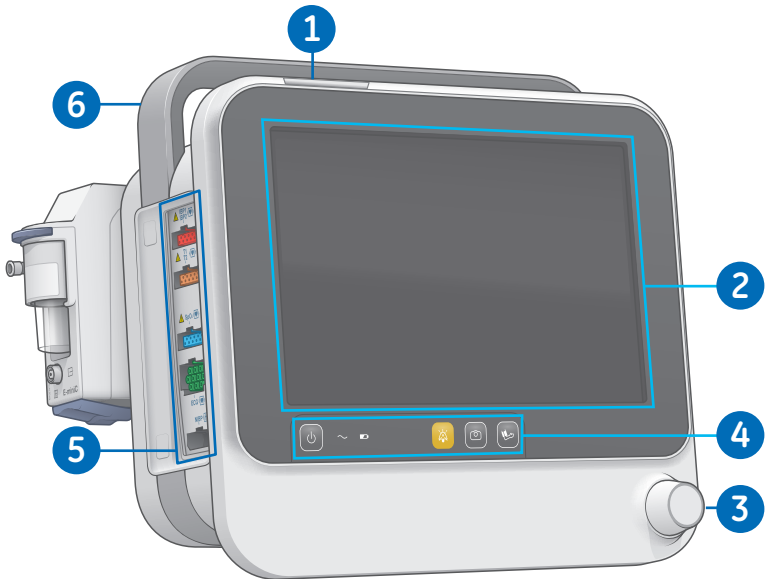
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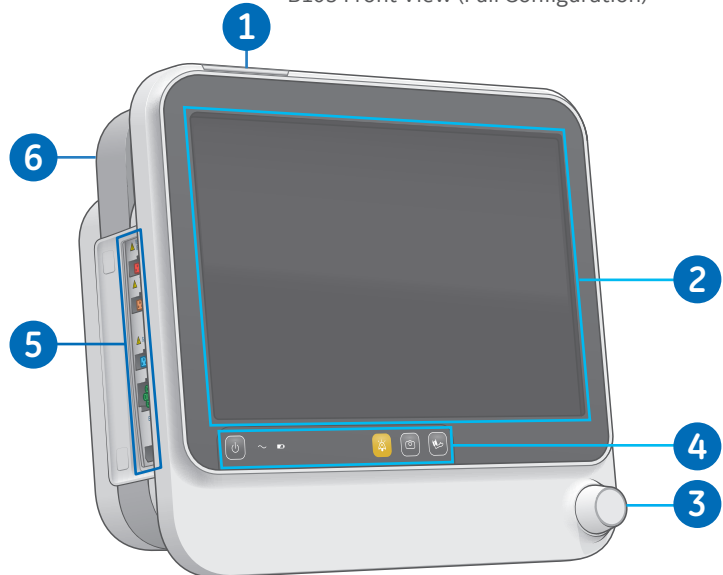
1 System Overview

System Components: Front View

1. **Alarm light:** Changes color based on alarm condition.
2. **LED Display:** B125 Monitor is 12.1 inches, B105 Monitor is 10.1 inches.
3. **Trim Knob:** Used to highlight and confirm menu selections.
4. **Keypad:** Used to turn the monitor on and off, along with other interactions.
5. **Hemodynamic Connectors:** Contains the Invasive Pressure, Temperature, SpO₂, ECG and NIBP connectors.
6. **Transportation Handle:** Used to transport the monitor.



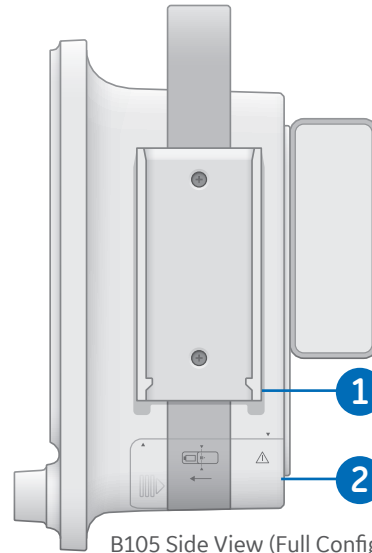
B105 Front View (Full Configuration)



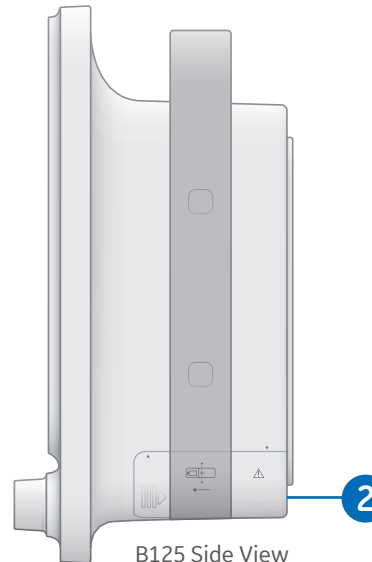
B125 Front View

System Components: Side View

- 1. Recorder Guide Rail:** Used to insert the recorder along the insertion guides.
- 2. Battery Compartment:** Insert a GE authorized lithium-ion battery to allow the monitor to run on battery power.



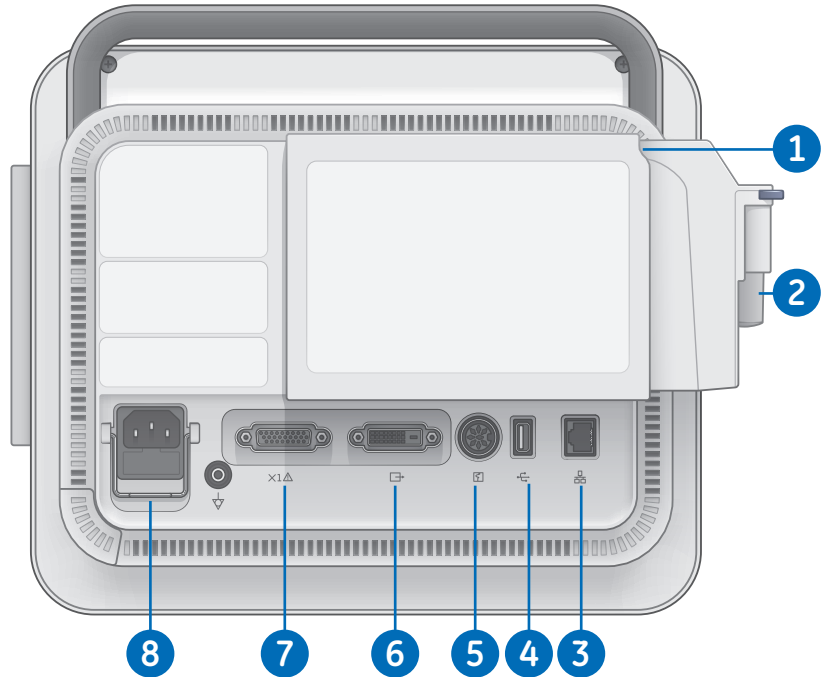
B105 Side View (Full Configuration)



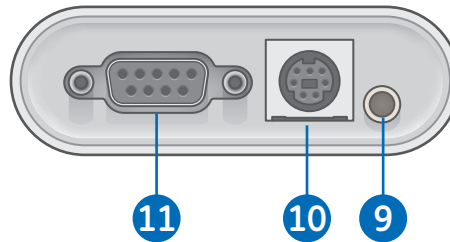
B125 Side View

System Components: Back View

1. Extension Rack
2. E-miniC Module
3. Network Connector
4. USB Connector
5. Recorder Connector
6. DVI Connector
7. Multi I/O Connector
8. Receptacle for Power Cord
9. Nurse Call Connector
10. Defibrillator Connector
11. Serial Port



B105 Back View (full configuration)

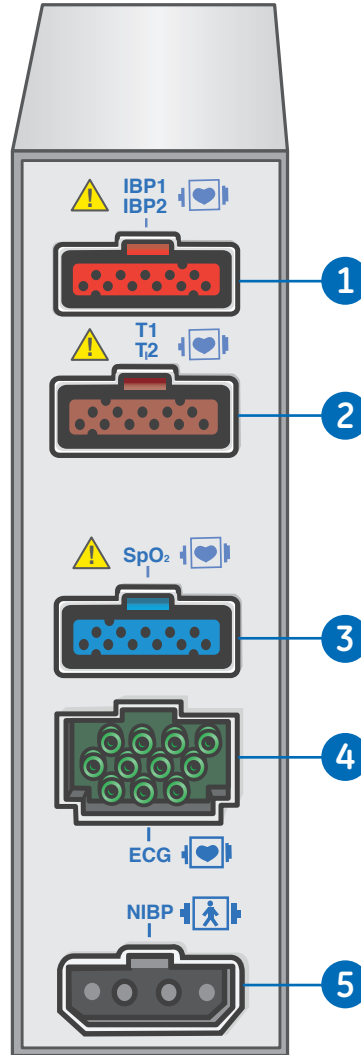


Multi I/O

Hemodynamic Connectors

The cables for the parameters shown all connect to the hemodynamic connectors on the left side of the monitor.

1. Invasive blood pressure (IBP) Connector
2. Temperature Connector
3. SpO₂ Connector
4. ECG and Impedance Respiration Connector
5. NIBP Connector



2 Monitoring Basics

Turning the Monitor On and Off

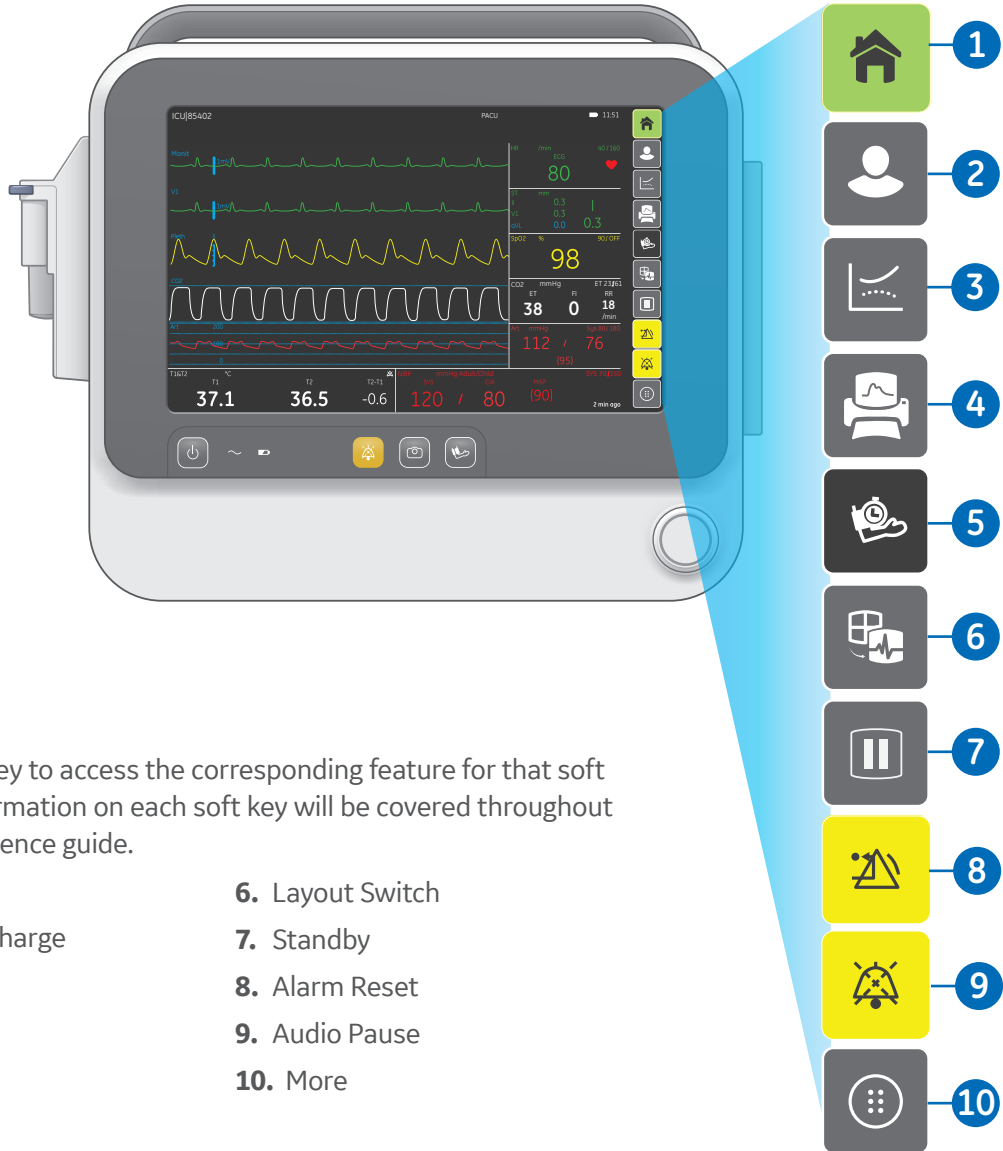
Turning the Monitor On

1. Ensure all cables are properly connected.
2. Press the **On/Off** key located on the keypad.
 - The welcoming screen will appear with a status bar indicating the progress of the startup procedure.
 - After turning on the monitor, and during operation, the monitor runs automatic self-tests. If a malfunction is detected, the monitor displays a message or an alarm, depending on the severity of the malfunction.



Turning the Monitor Off

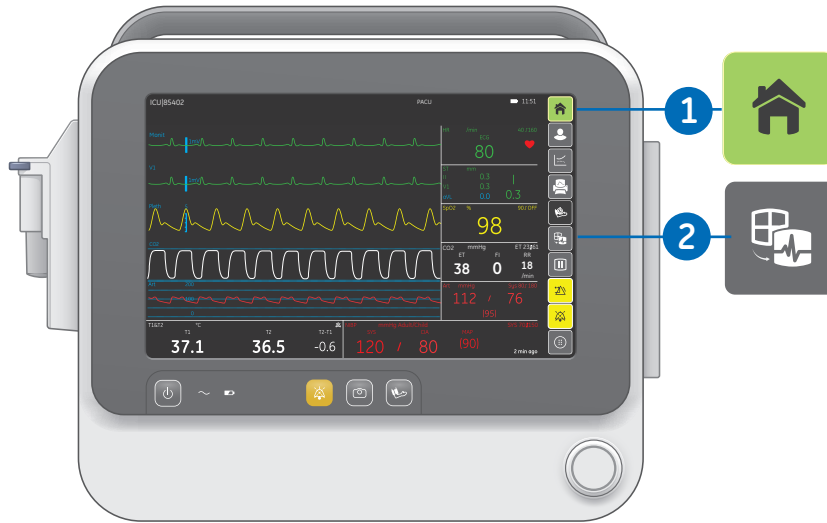
1. Press the On/Off key.
2. The message **Monitor is shutting down...** will appear on the screen.



Soft Keys

Select a soft key to access the corresponding feature for that soft key. More information on each soft key will be covered throughout the quick reference guide.

- | | |
|--------------------|------------------|
| 1. Home | 6. Layout Switch |
| 2. Admit/Discharge | 7. Standby |
| 3. Trends | 8. Alarm Reset |
| 4. Print | 9. Audio Pause |
| 5. Start NIBP | 10. More |



Normal Screen

When monitoring begins, the main page appears automatically. This preconfigured page is called the normal screen. There are two layouts available for the normal screen:

- **Waveform Layout:**

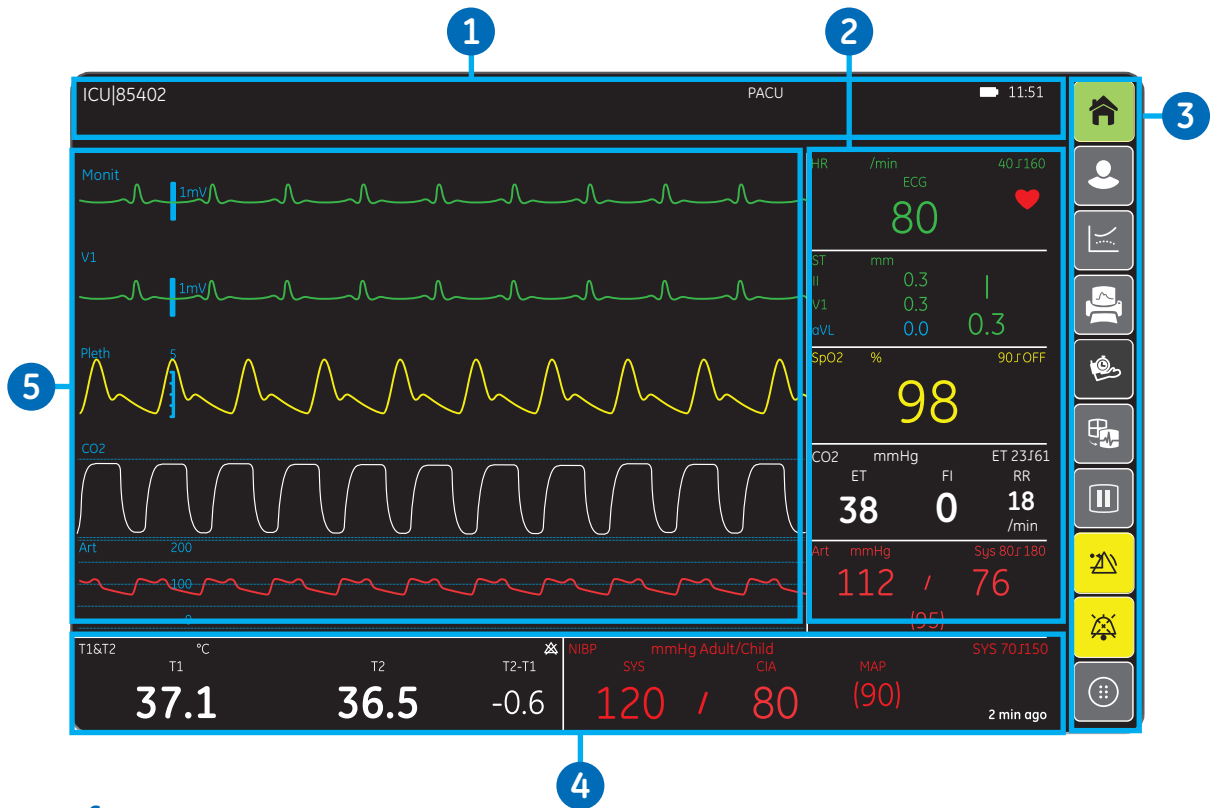
The monitor displays up to 5 waveforms and 4 lower digit fields at a time. If the lower digit field is turned off, up to 6 waveforms can be displayed.

- **Large Number Layout:**

The monitor displays up four large numbered digit fields with the associated waveform at the bottom of each digit field.

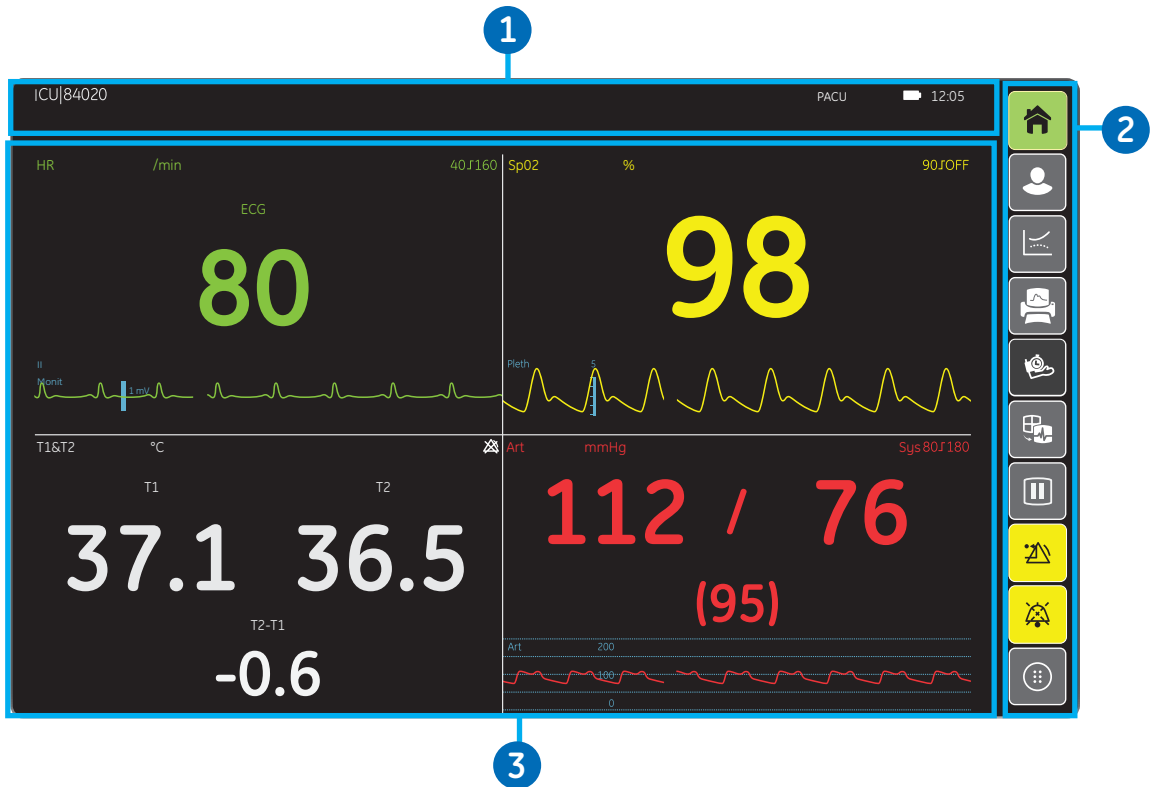
1. Select the **Home** soft key in the upper right area of the display to return to the normal screen.
2. Select the **Layout Switch** soft key in the right area of the display to switch between Waveform and Large Number layout.

Any changes you make to the screen setup during monitoring are changes to this normal screen. These changes are not permanent unless they are saved to a mode. They are valid until the patient is discharged. They are also kept in the device memory for 120 minutes after the power is turned off.



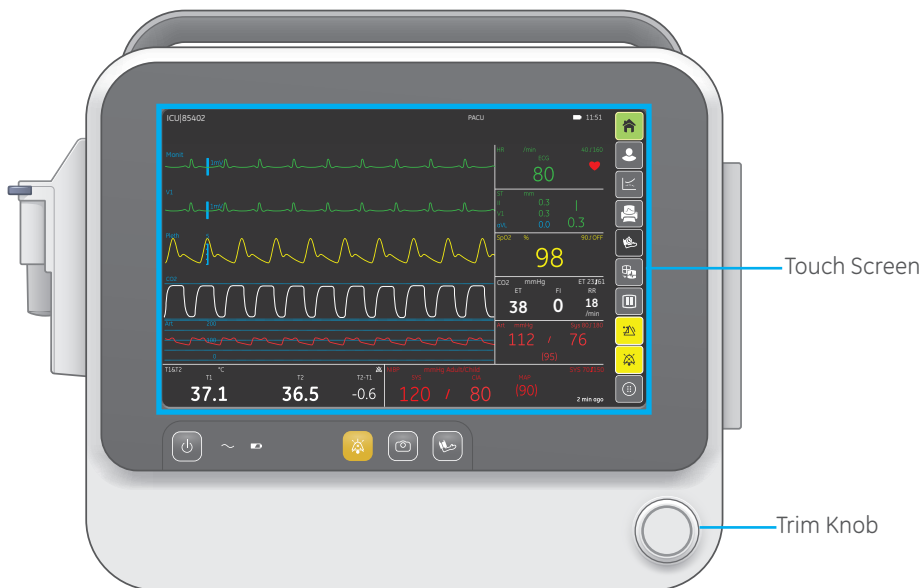
Waveform Layout

1. Information and Message Fields
2. Upper Digit Fields
3. Soft Key Field
4. Lower Digit Fields
5. Waveform Fields



Large Number Layout

1. Information and Message Fields
2. Soft Key Field
3. Large Number Fields



System Navigation

Selecting Menu Options with a Touch Screen

1. Touch the menu option with your finger.
2. The highlight on the screen moves to this option.
3. Lift your finger off the screen, and the selected function is performed.

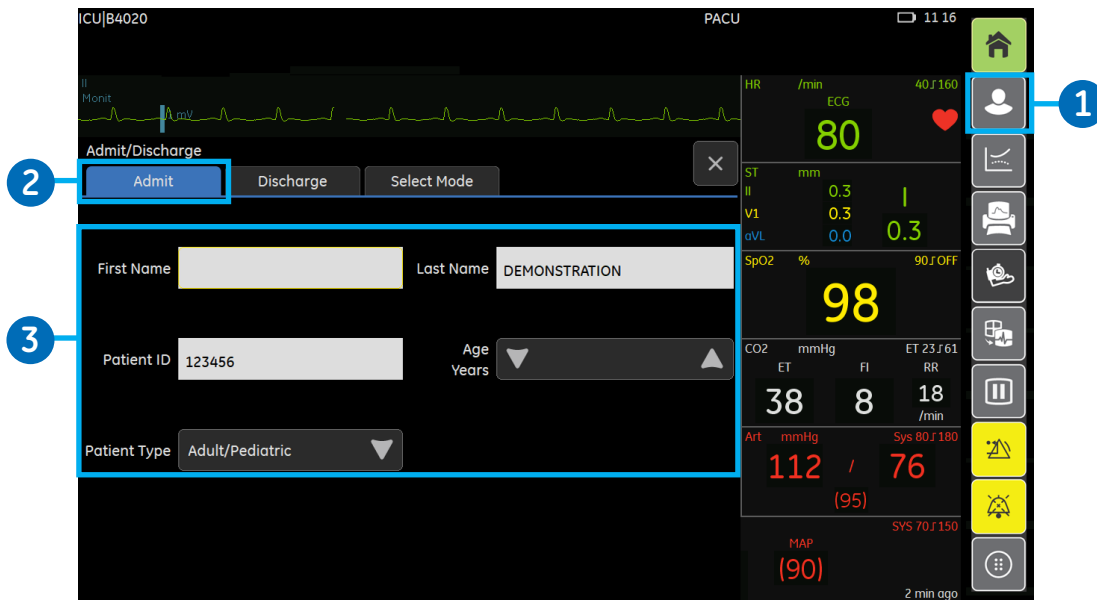
Selecting Menu Options with the Trim Knob Control

1. Rotate the Trim Knob control in either direction to move the highlighted cursor from option to option on the display.
2. Press the Trim Knob control once to select the highlighted option.

Entering Data

When data entry is required, the monitor automatically displays an on-screen keyboard for you to use.

1. Select the desired data field. The selected field is highlighted in yellow, indicating that you can begin entering the text.
2. To enter data, select the characters with the Trim Knob or touchscreen.



Admitting a Patient

A patient is automatically admitted when the monitor detects any of the following vital signs: ECG, impedance respiration, Art, ABP, UAC, NIBP, SpO2, or CO2. When a patient is admitted at the bedside monitor and the monitor is connected to the network, patient data will display at the central station.

A patient is manually admitted when any patient data is entered or loaded. Patient data

can be entered locally using the monitor, or entered remotely using a central station.

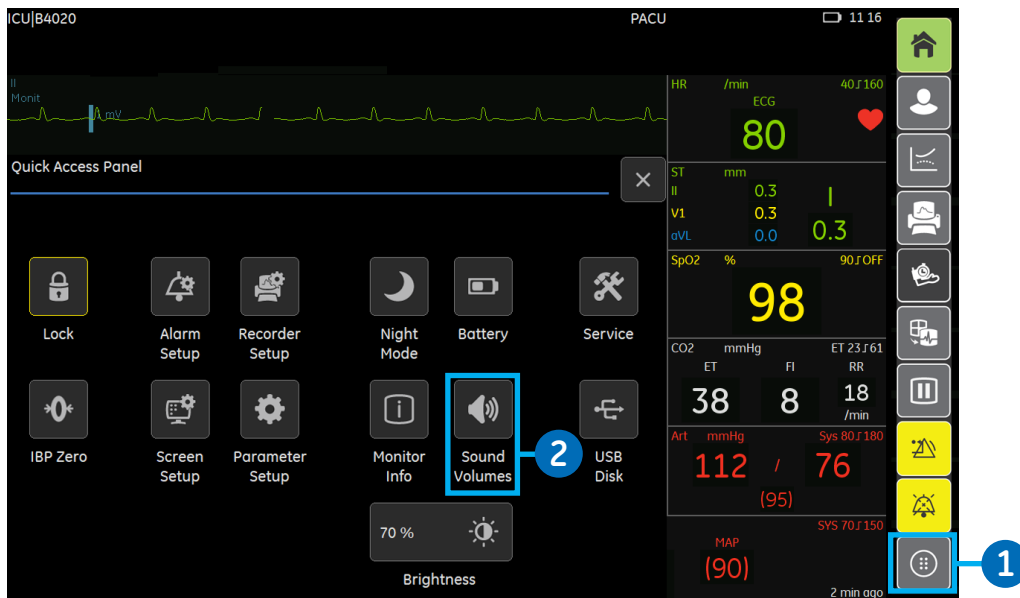
Manually Admitting a Patient

1. Select the **Admit/Discharge** soft key.
2. Select the **Admit** tab if it not already selected.
3. Select any of the patient data selection fields and make the appropriate entry/selection.



Note! When you select **Patient Type** to **Neonatal**:

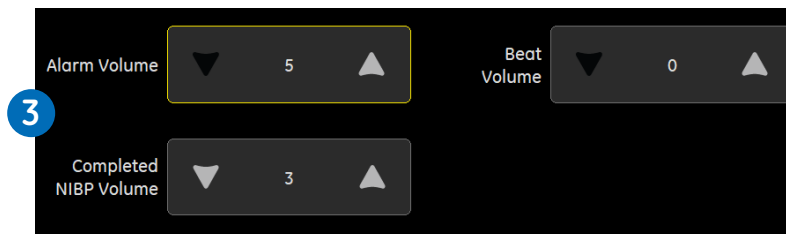
- The mode will automatically become **NEONATAL**.
- The **Age Years** are not available.
- The **OxyCRG** will display.

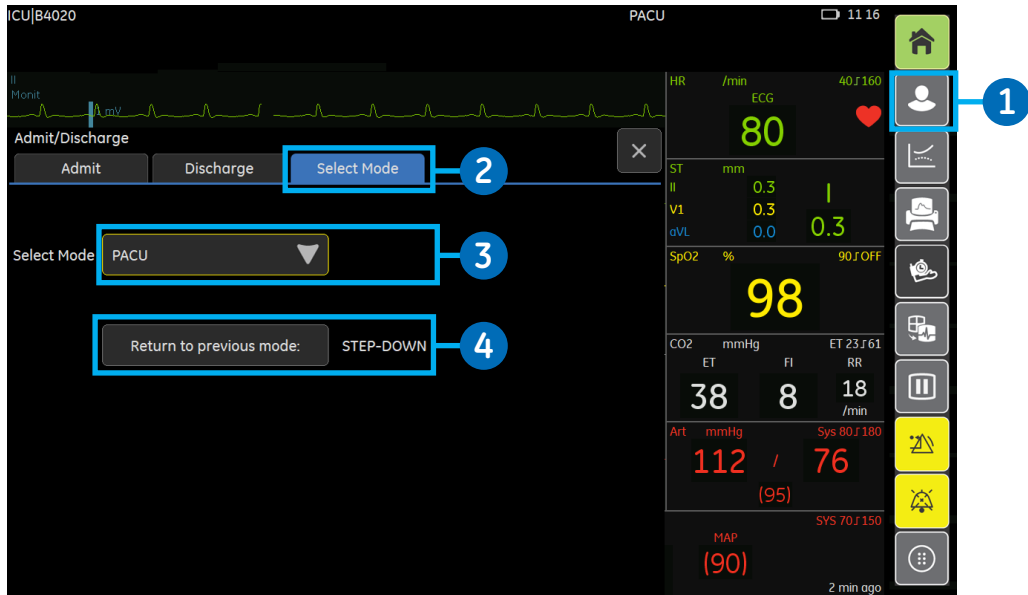


Adjusting Sound Volume

You can adjust various sound volumes according to your care environment needs. While you are adjusting the volume, you will hear a corresponding sound that will guide you in determining a suitable level. All volumes other than Alarm Volume can be set to 0 if required.

1. Select the **More** soft key to access the Quick Access Panel.
2. Select **Sound Volumes**.
3. Adjust the **Alarm Volume**, **Beat Volume** or **Completed NIBP Volume** with the arrows.





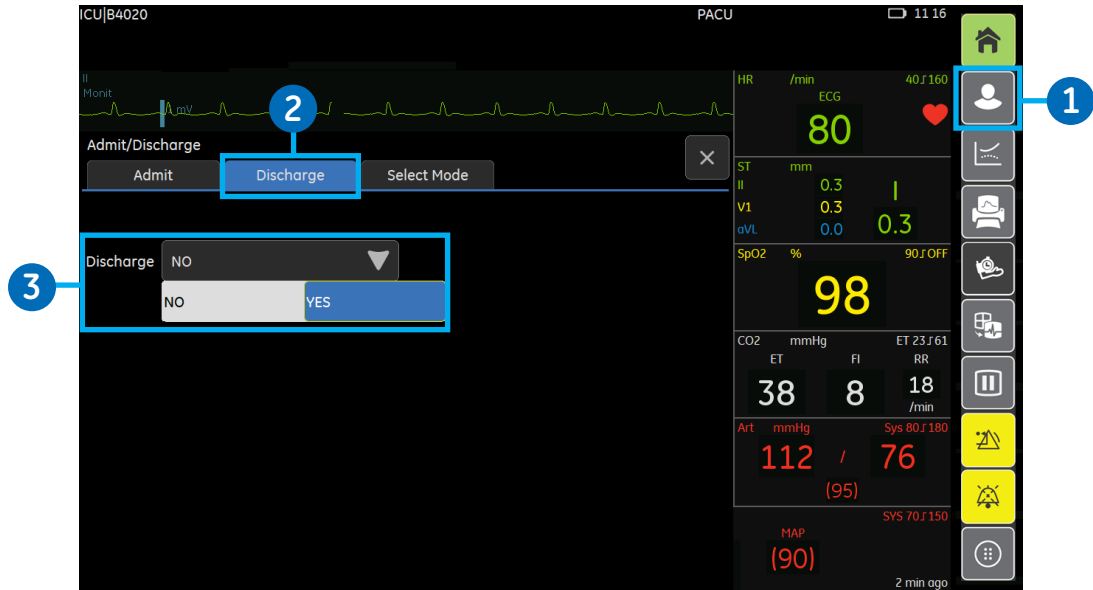
User Modes

When you start monitoring a patient, you can use the startup mode or select another mode. You can also change the mode while monitoring a patient without losing any patient data. The device has seven user modes to choose from. Modes control many settings, including parameter defaults, alarm detection limits, and the screen display.

Changing a Mode

1. Select the **Admit/Discharge** soft key.
2. Select the **Select Mode** tab.
3. Select a mode from the Select Mode list.
4. You can return to the previous mode by selecting Return to previous mode.

If you make changes to a mode while using it and need to return to its previous settings, first select another mode and then re-select the one you were using.



Discharging a Patient

Discharging a patient deletes all patient information in the monitor.

The monitor discharges a patient automatically after 24 hours when vital signs for parameters (except Temperature) are not available. When this happens, all trend data will be cleared and alarm settings will return to the default values.

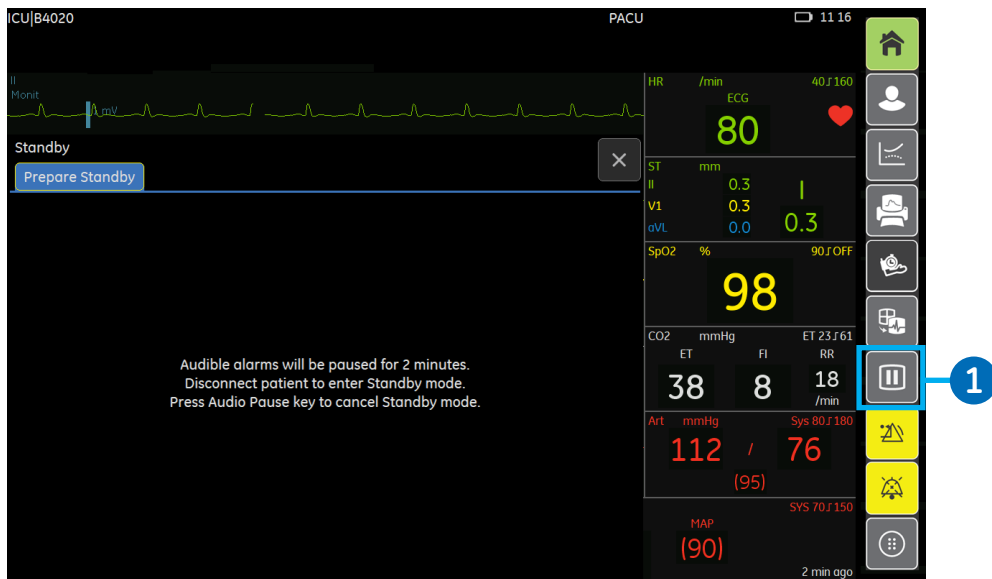
The patient can be discharged remotely using a central station, provided that this option has been enabled.

Discharging a patient

If desired, print the patient data and then disconnect any patient cables.

1. Select the **Admit/Discharge** soft key.
2. Select the **Discharge** tab.
3. Select **YES** from the Discharge list.

Parameter settings, including alarm limits, return to the default settings. All patient data and trend data is removed from the monitor.



Standby

Starting Standby

1. Select the **Standby** soft key. If patient cables are still connected and the monitor is receiving physiological data, a text message will be displayed, indicating that audio alarms have been paused.
2. Disconnect patient cables to start the standby. If you do not disconnect the cables and physiological data is still present after the audio

pause time expires, the standby is canceled. You can also select to cancel entering standby immediately.

3. The screen will go blank and the **Standby** text appears.

Ending Standby

The monitor ends the standby state automatically when any of the following conditions occur:

- Any physiological data is detected.

- User input is received: a keypad key is pressed, Trim Knob is pressed or rotated, or the touchscreen is pressed.

After that, a continue menu will open, the options are:

- **Continue:** Continue monitoring of previous patient.
- **Discharge:** Discharge current patient and erase patient data from monitor.
- **Standby:** Enter Standby mode.

3 Alarms

Art Sys low

Tachy

SpO2 Low

High priority alarms

Medium priority alarms

Alarms Overview

Alarm priority levels

All alarms are categorized by priority level:

- **High priority alarms:** Require an immediate response (white text flashes inside a red box).
- **Medium priority alarms:** Require a prompt response (black text inside a yellow box).
- **Low priority alarms:** Require you to be aware of this condition (white text inside a blue box).
- **Informational priority messages:** Provide information you should know (black text inside a grey box).

Alarm priority escalation

An escalating alarm starts at a designated priority level (low or medium) and will escalate to the next higher priority level (after a set number of seconds) if the alarm condition has not been resolved. It is important to note that the alarms escalate up to the next level but will not reset until the condition has been resolved.

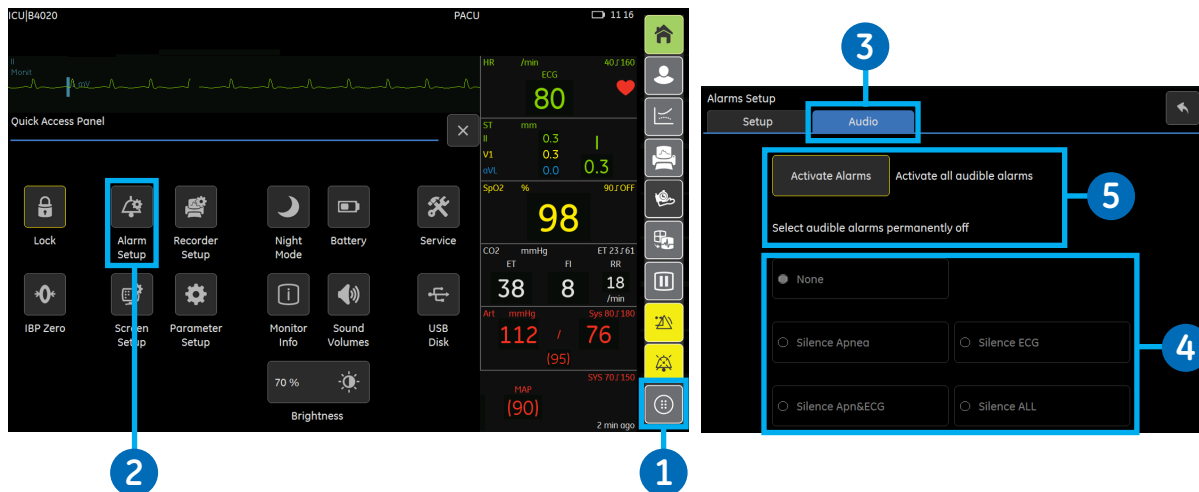
When more than one alarm occurs at the same time, the monitor will sound an alarm tone for the highest priority alarm.

Breakthrough Alarms

The breakthrough alarms feature allows pre-defined and user-selectable alarms to “breakthrough” (interrupt) a 2-minute audible alarm pause state.

Latched Alarms

When alarms are latched, the visual message remains after the alarm condition no longer exists. To clear alarms that are no longer active, select the **Alarm Reset** or the **Audio Pause** soft key.



Turning Audible Alarms On and Off

You can turn on/off the audible physiological alarm tones for an alarm group or for all alarms.

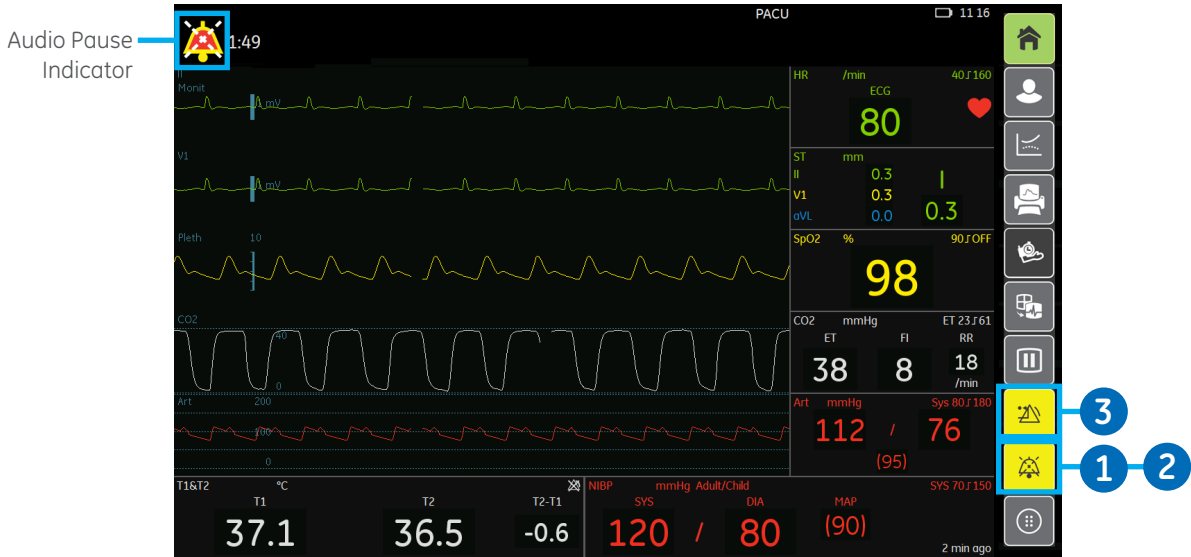
1. Select the **More** soft key to access the Quick Access Panel.
2. Select **Alarm Setup**.
3. Select the **Audio** tab.

4. Select an alarm group. Choices are:

- **None:** No audible alarms are turned off.
- **Silence Apnea:** Turns off audible alarms for apnea, EtCO₂, FiCO₂, respiration rate limit alarms.
- **Silence ECG:** Turns off audible alarms for all HR source limit and arrhythmia alarms.

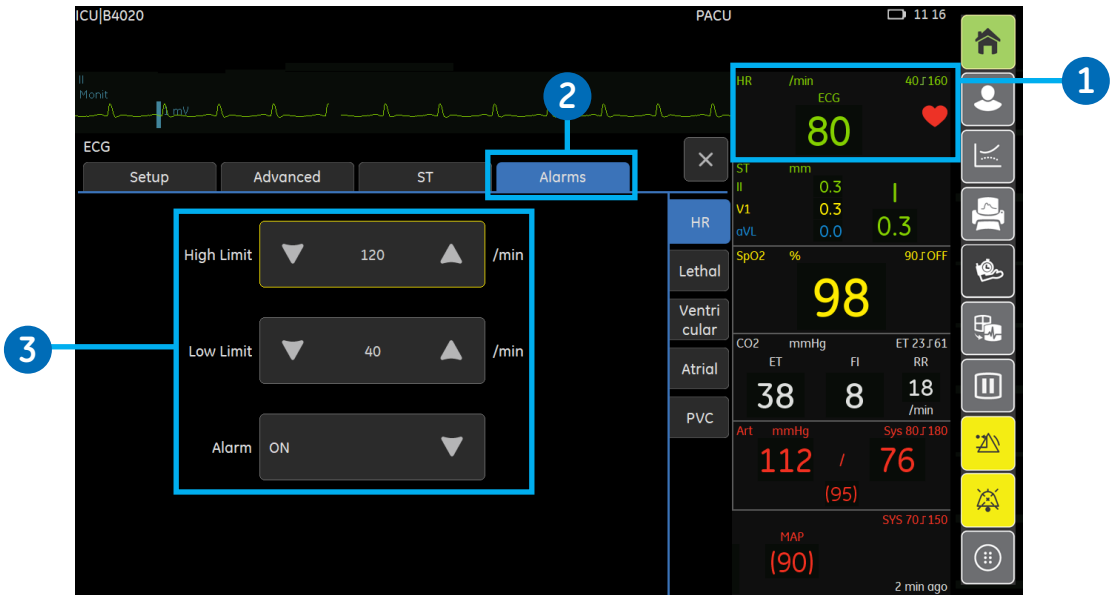
- **Silence Apn&ECG:** Turns off audible alarms for all HR source limit, arrhythmia, apnea, EtCO₂, FiCO₂, respiration rate limit alarms.
- **Silence ALL:** Turns off all audible alarms except some high priority alarms defined as breakthrough alarms.

5. To turn on all audible alarms again, select **Activate Alarms**, or select **None** as instructed above.



Audio Pause

1. Selecting the **Audio Pause** soft key once:
 - Starts a 2-minute audio pause state for all alarms except the specified breakthrough alarms.
 - Removes all latched alarms (including message and light).
2. Selecting the **Audio Pause** soft key a second time during the 2-minute pause:
 - Ceases the audio pause state.
 - Deactivates some alarms (mainly technical alarms).
3. Selecting the **Alarm Reset** soft key:
 - Starts a 2-minute alarm silence for all current active alarms.
 - Removes all latched alarms (including message and light).
 - Does not silence any new alarms.
 - Ceases the audio pause state, if available.



Changing an Alarm Limit

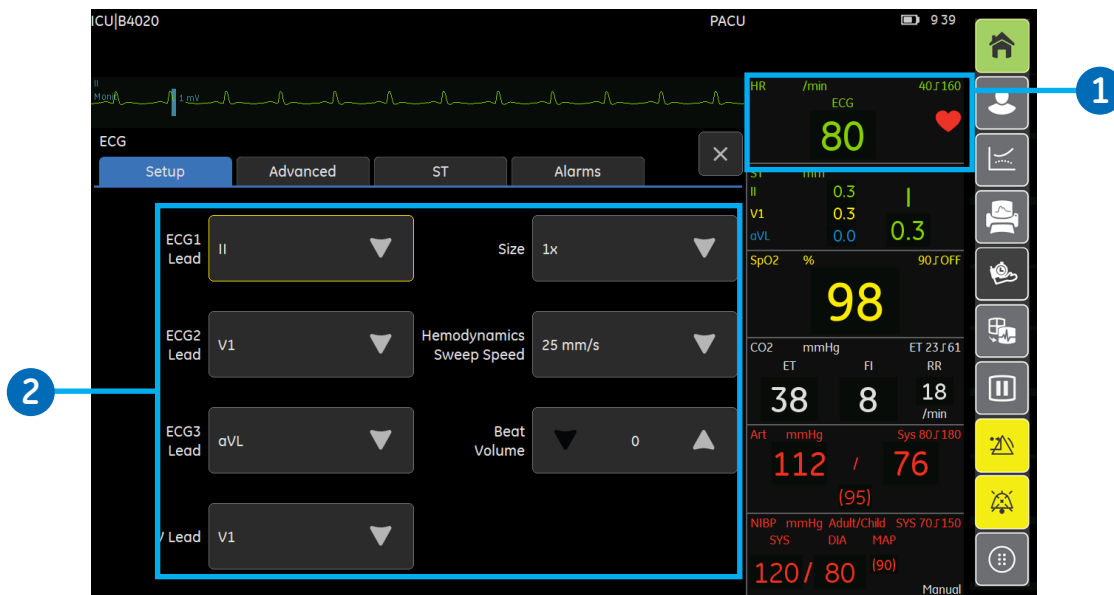
Setting Parameter Alarm Limits

Parameter alarm limits are set in the parameter menus' own Alarms tab. Alarm limits should not be set beyond reasonable physiological boundaries to maintain patient safety. Parameter settings outside of reasonable boundaries would cause the alarms to be ineffective. An example of changing the alarms limits for ECG is shown to the right.

Example: Changing the alarm limits for ECG:

1. Select the ECG digit field.
2. Select the **Alarms** tab.
3. Adjust the ECG alarm limits using the arrow selectors.

4 Patient Parameters



ECG

1. Accessing the ECG Setup Tab

To access the ECG setup tab, select the ECG digit field.

2. Basic ECG Settings

ECG1, ECG2 and ECG3

Lead: Select the first, second and third displayed ECG lead.

V Lead: Select the V ECG lead position with a 5-lead ECG.

Size: Adjust the ECG size.

Hemodynamic Sweep Speed: Adjust the sweep speed. The smaller the value, the slower the sweep speed.

Beat Volume: Set the beat tone volume. The range is 0 (volume off) to 10.

Impedance Respiration

1. Accessing the Impedance Respiration Setup Tab

To access the Impedance Respiration Setup tab, select the impedance respiration digit field.

2. Impedance Respiration Selections from the Setup Tab

Size: Increase or decrease the waveform size. The greater the value, the larger the waveform size.

Measurement: Turn impedance respiration measurement on and off.

Detection Limit: Auto detection limit is recommended. However, in some cases the user may wish to adjust the limits manually:

- When the respirations are weak: adjust the detection limits closer to each other to make sure that all respirations are included in the RR value. In this case, the dotted line represents the absolute detection limits.
- If there is a lot of artifact: adjust the detection limits further apart to separate smaller artifacts from the larger true peaks. The small peaks fall within the grids and are not calculated, the bigger peaks cross the grids and are calculated as true respirations.

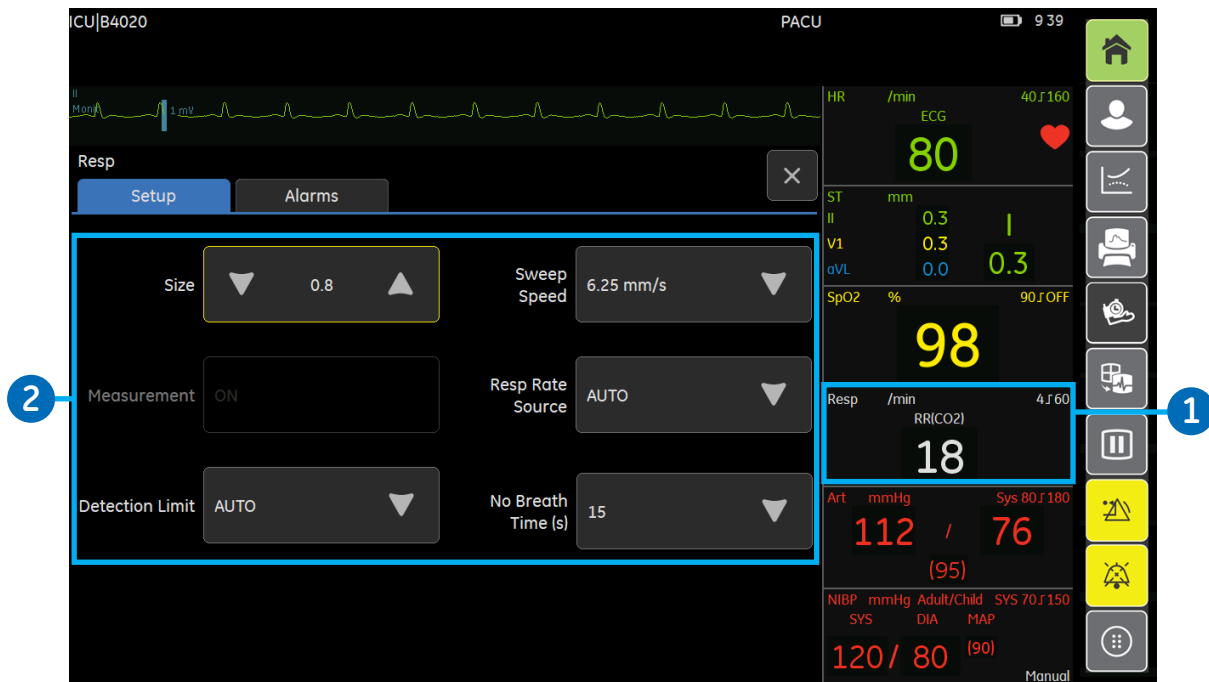
Sweep Speed: Set the impedance respiration sweep speed. Choices are **Fast** (6.25 mm/s.) and **Slow** (0.625 mm/s.)

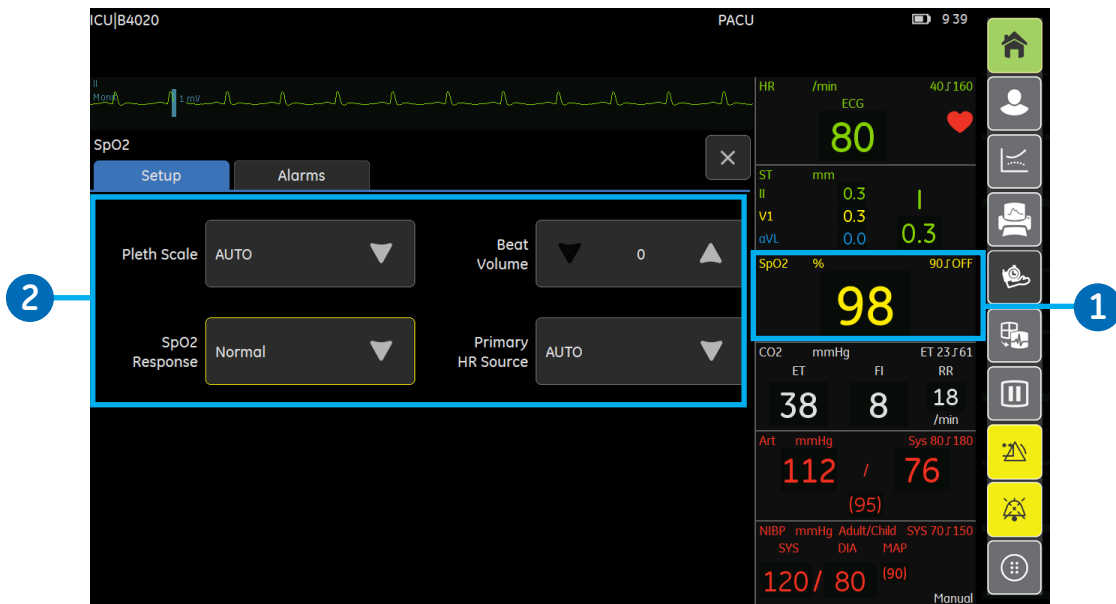
Resp Rate Source:

The choices are:

- **AUTO:** the monitor selects the respiration rate source from the available sources. The first priority is CO₂. When the CO₂ measurement is not available, the impedance respiration is used.
- **CO₂:** available only if there is a CO₂ source.
- **Imped.:** available only if there is an ECG source.

No Breath Time(s): This menu is not available for FDA countries. This menu is shown only in the Neonatal mode. You can choose how many seconds for the No Breath alarm delay.





Pulse Oximetry



Note! The selections available on the SpO₂ Menu will vary depending on the SpO₂ technology in use. Please consult the user manual for more information on selections available for each SpO₂ technology. The selections shown are only an example.

1. Accessing the SpO₂ Setup

Tab: To access the SpO₂ Setup Tab, select the SpO₂ digit field.

2. Examples of SpO₂ Setup Menu Selections

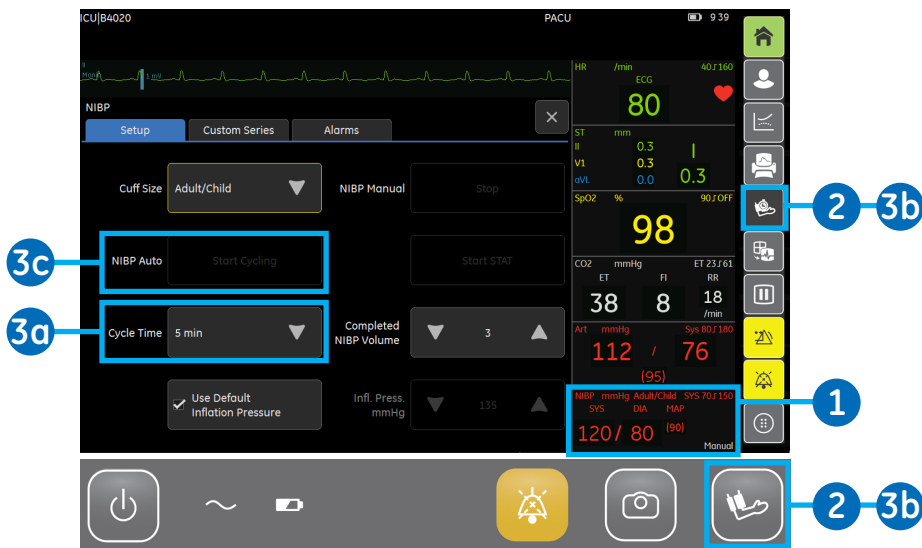
Pleth Scale: Select the scale from the list using the selection arrows.

SpO₂ Response:

(GE TruSignal technology and sensors only): Select an average time of the SpO₂ measurement from the list.

Beat Volume: Adjust tone the volume using the selection arrows.

Primary HR Source: Select the heart rate source using the selection arrows.



NIBP

1. Accessing the NIBP Setup Tab select the NIBP digit field.

2. Starting or Stopping Manual NIBP Measurements Press the NIBP soft key, the NIBP key on the keypad or select **Start** or **Stop** for NIBP Manual from the NIBP setup menu.

3. Automatic NIBP Measurements

- Set the cycle time from the **Cycle Time** selection on the NIBP setup menu.

- Press the NIBP soft key, the NIBP key on the keypad.
- or select **Start Cycling** or **Stop Cycling** for NIBP Auto from the NIBP setup menu.

Other NIBP Setup Menu Selections

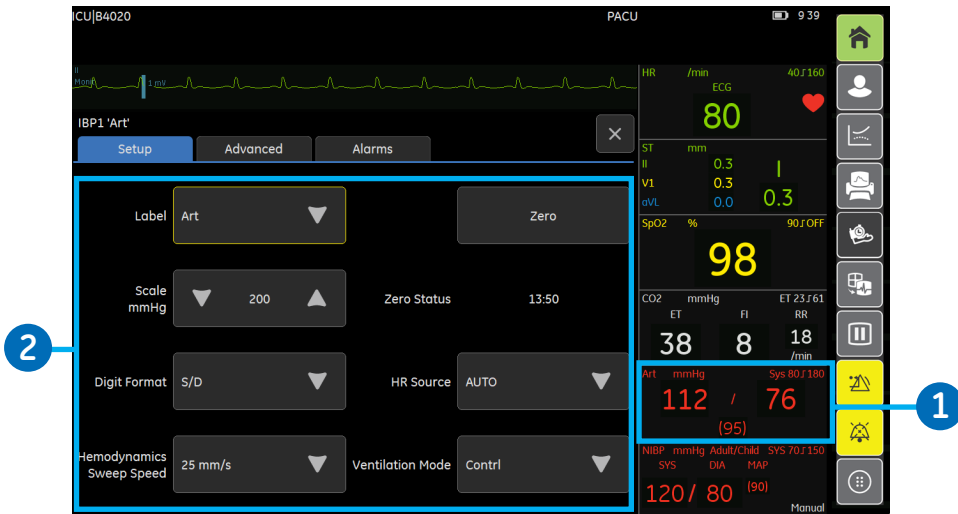
Cuff Size: Select Adult/Child, or Neonatal from the Cuff Size list.

Use Default Inflation Pressure: Select the check box to use the default inflation pressure, which corresponds to cuff size.

Start STAT: The STAT mode initiates a continuous cycle of measurements for five minutes.

Completed NIBP Volume: Use the selection arrows to adjust the NIBP completion volume. The lower the value, the softer the tone.

Infl. Pressure mmHg: You can manually change the target inflation pressure for the first NIBP measurement by using the selection arrows. Use Default Inflation Pressure must be un-checked.



Invasive Pressure

1. Accessing the Invasive Pressure Setup Tab:

To access the Invasive Pressure Setup Tab, select the Invasive Pressure digit field.

2. Invasive Pressure Setup Menu Selections

Label: Select a channel label from the Label list. Only one channel label can be mapped at a time.

Scale mmHg: Select the waveform scale with the selection arrows. The larger the scale value, the smaller the waveform size.

Digit Format: You can choose to display systolic, diastolic, or mean pressure values in different formats. Select the desired format with the selection arrows.

Hemodynamics Sweep Speed: Select a numeric value with the selection arrows. The smaller the value, the slower the sweep speed.

Zero: Select to zero a single active pressure transducer.

HR Source: Select the heart rate source with the selection arrows. This setting adjusts the primary heart rate source for all of the hemodynamic parameters.

Ventilation Mode: Select either **Spont** (spontaneous respiration) or **Contr** (controlled ventilation). This setting affects the respiration filter.



Temperature

1. Accessing the

Temperature Setup Menu

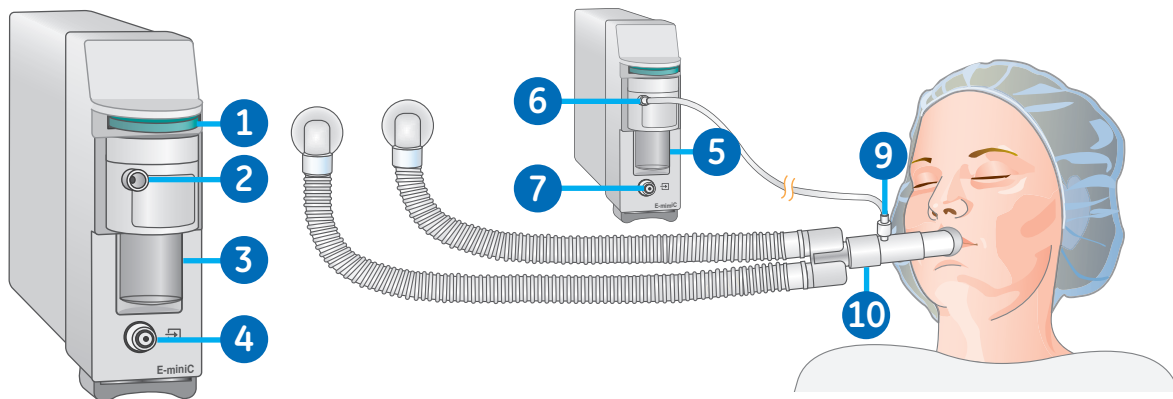
Select the Temperature Digit Field.

2. Temperature Setup Menu Selections

T1 Label: Select a site label using the selection arrow.

T2 label: Select a site label using the selection arrow.

Unit: Select either Centigrade or Fahrenheit using the selection arrow.



CO₂

CO₂ Equipment Setup

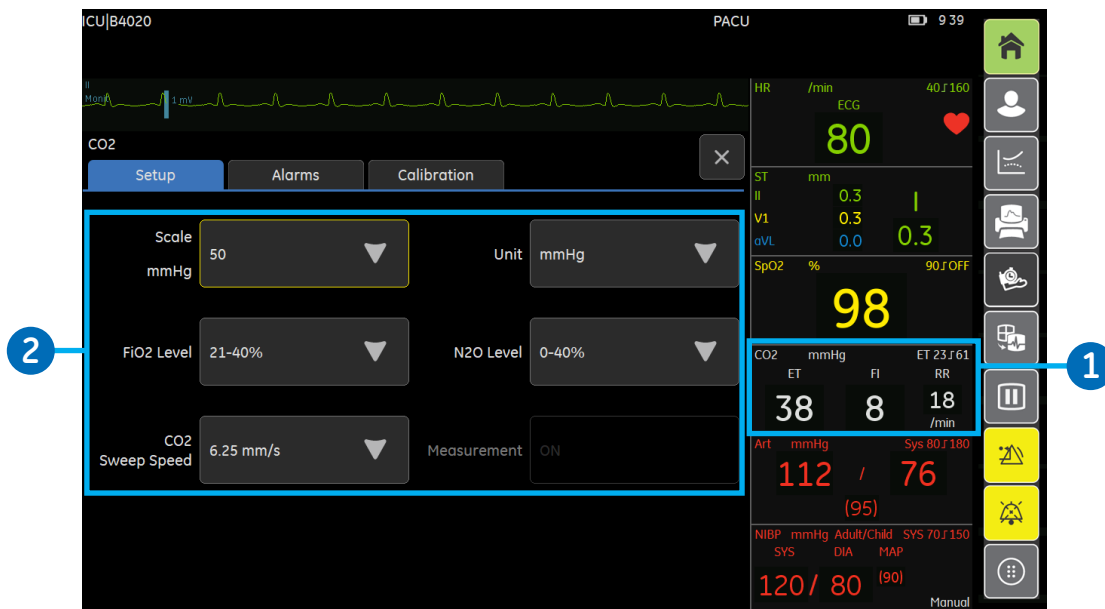
The B125 and B105 monitors are compatible with the E-miniC module.

E-miniC Components

1. Water trap latch
2. Sample line connector
3. Mini D-fend water trap
4. Sample gas outlet (gas exhaust)

Patient Connection Example

5. Make sure that the water trap container is empty and properly attached.
6. Connect the gas sampling line to the sampling line connector on the water trap.
7. Connect the sample gas outlet to gas scavenging if N₂O or volatile agents are used.
8. Turn on the monitor or connect the module to the monitor. The monitor performs a self-check for the module when the module is connected. Wait until the message Calibrating disappears.
9. Connect the sampling line to the airway adapter on the ventilator circuit. Position the adapter with the sampling port upwards to minimize the amount of condensed water possibly entering the sampling line.
10. Check that the airway adapter connections are tight and that the adapter is operating properly.



The CO₂ Setup Tab

1. Accessing the CO₂ Setup Tab

To access the CO₂ Setup Tab, select the CO₂ digit field.

2. CO₂ Setup Menu Selections

Scale: Select the waveform scale with the selection arrows. The larger the scale value, the smaller the waveform size.

FiO₂ Level: The presence of a large concentration of oxygen causes the CO₂ level to appear lower than the actual value. Use this option to appear lower than the actual value. Use this option to compensate for the presence of O₂. The choices are **21-40%** or **40-100%**.

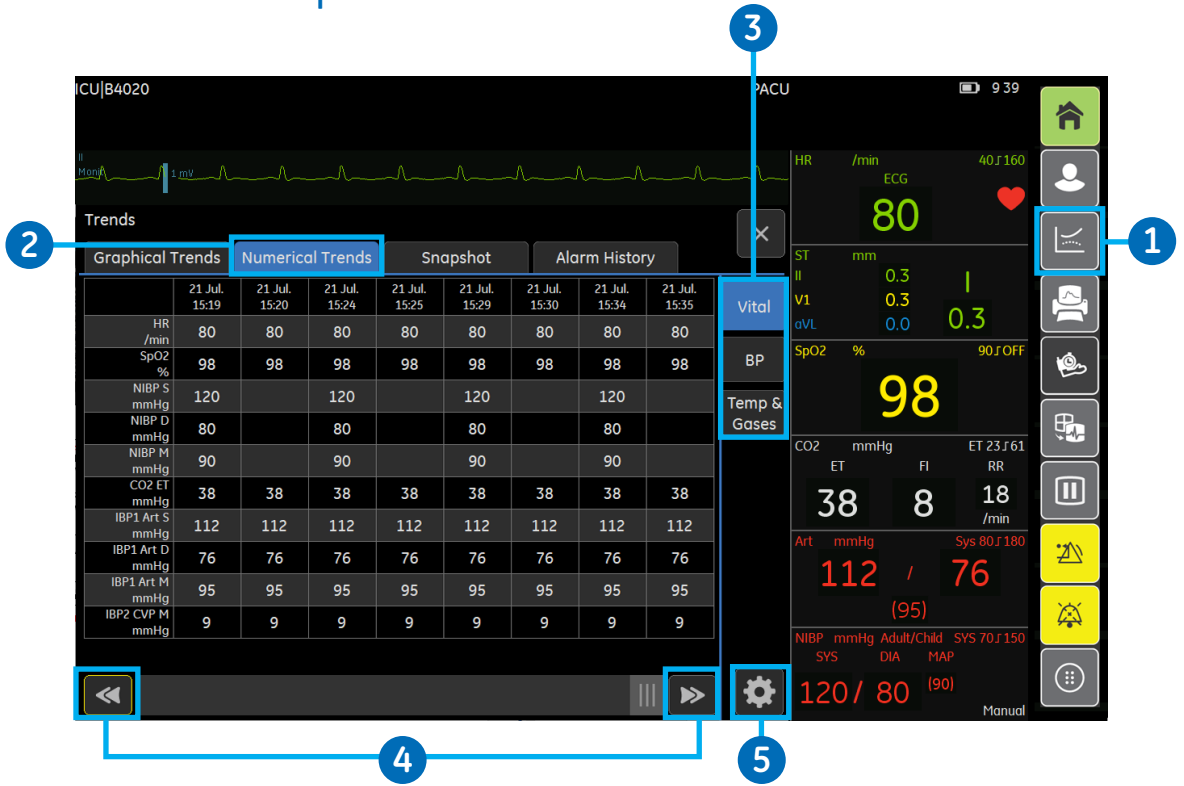
CO₂ Sweep Speed: Select a sweep speed with the selection arrows. The choices are **Fast** (6.25 mm/s) or **Slow** (0.625 mm/s).

Unit: Select a unit with the selection arrows. The choices are **%**, **kPa**, or **mmHg**.

N₂O Level: The presence of N₂O causes the CO₂ level to appear higher than the actual value. Use this option to appear higher than the actual value. Use this option to compensate for the presence of N₂O. The choices are **0-40%** or **40-80%**.

Measurement: Select **On** or **Off** to turn the CO₂ measurement on or off.

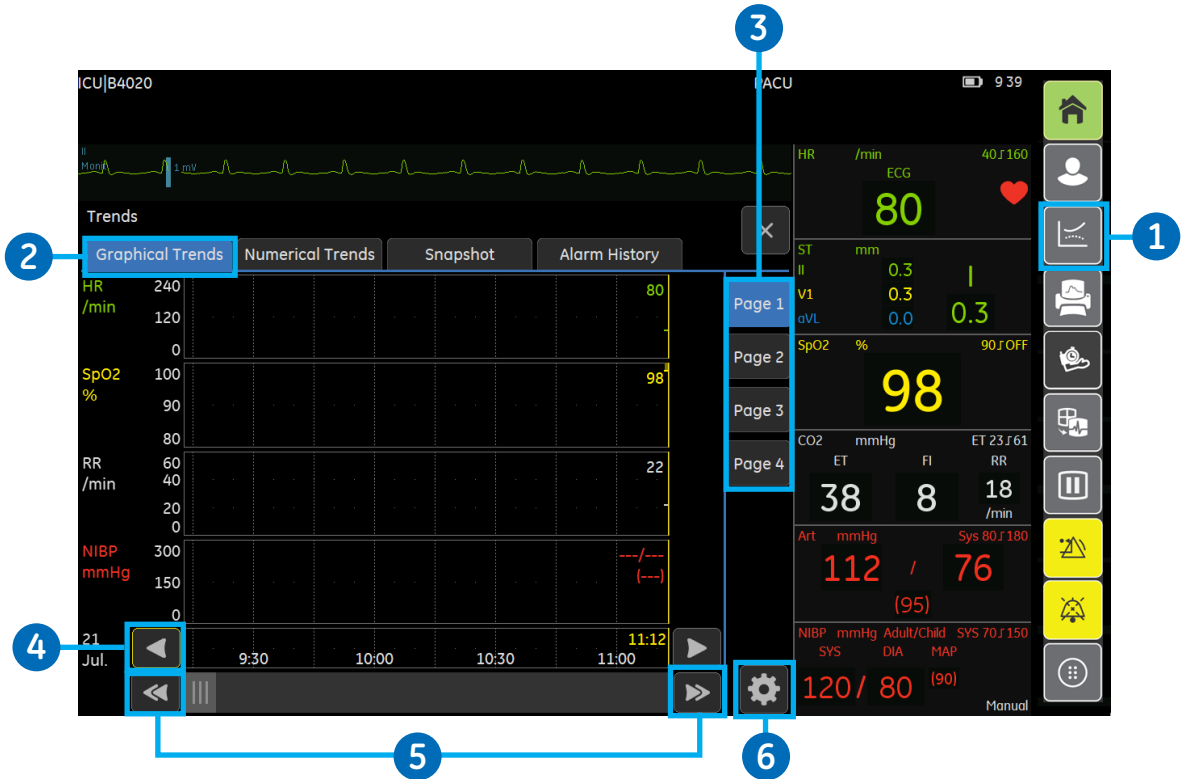
5 Trends and Snapshots



Numeric Trends

Numeric trends contain 3 pages with 168 hours (7 days) of trend data. You cannot configure the layout of the Numerical Trends view.

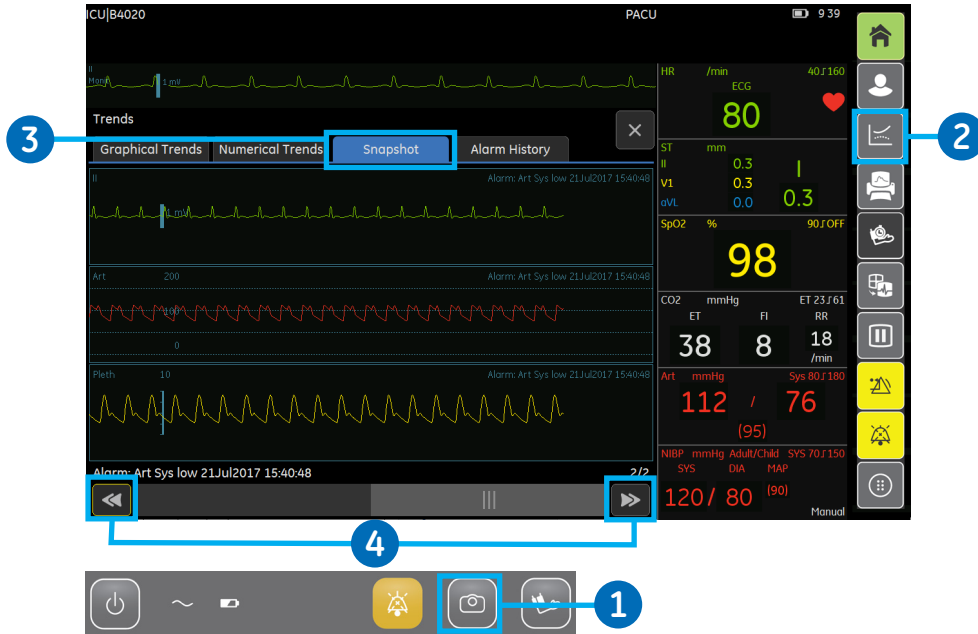
1. Select the **Trends** soft key.
2. Select the **Numerical Trends** horizontal tab.
3. To see more parameters, select their vertical tabs in the trend view.
4. To see more numeric trend data, use << >> at the bottom bar.
5. To change the time interval, select the **Setup** icon on the bottom right corner and then select a value from **Time Interval**.



Graphic Trends

Graphic trends contain 168 hours (7 days) of trend data. They contain four trend pages, each having up to four fields with different parameters.

1. Select the **Trends** soft key.
2. Select the **Graphical Trends** horizontal tab.
3. To see more parameters, select vertical tabs 1 to 4.
4. To see numeric values at a certain time, use < > at the bottom bar. The numeric values are displayed next to the cursor.
5. To see more values for a previous time, use << >> at the bottom bar.
6. To change the timescale, select the **Setup** icon on the bottom right corner and then select a value from **Time Scale**.



Snapshots

A snapshot is a set of measured data saved from a certain moment of time. Snapshots can contain waveform clips and trigger events. You can take up to 200 snapshots depending on the data load.

Automatically Created Snapshots

You can create snapshots automatically on alarms if automatic snapshot creation is enabled. The alarm condition

for creation are: Brady, Tachy, Art sys/dia/mean high, and Art sys/dia/mean low.

This feature is enabled via a password protected setting.

Manually Creating Snapshots and Viewing Snapshots

1. To manually create a snapshot, select the **snapshot** key on the keypad. The monitor saves the image of waveforms at that moment in time.
2. To view snapshots, select the **Trends** soft key and then...
3. Select the **Snapshot horizontal** tab.
4. You can see more snapshots by using << >> at the bottom bar.

ICU|B4020 PACU 9 39

Mon 1 mV

Trends

Graphical Trends Numerical Trends Snapshot Alarm History

Time	Alarm	Label	Value	Unit
15:52:25	Art Sys high	Sys	112	mmHg
15:40:48	Art Sys low	Sys	112	mmHg
2017-07-21	Art Sys low	Sys	112	mmHg
15:40:21	Tachy		80	mmHg
2017-07-21				

HR /min ECG 40.1 160
80

ST mm
II 0.3
V1 0.3
aVL 0.0 0.3

SpO2 % 90.1 OFF
98

CO2 mmHg ET 23.1 61
ET RR
38 8 18
/min

Art mmHg Sys 80.1 180
112 / 76
(95)

NIBP mmHg Adult/Child SYS 70.1 150
SYS DIA MAP
120 / 80 (90)

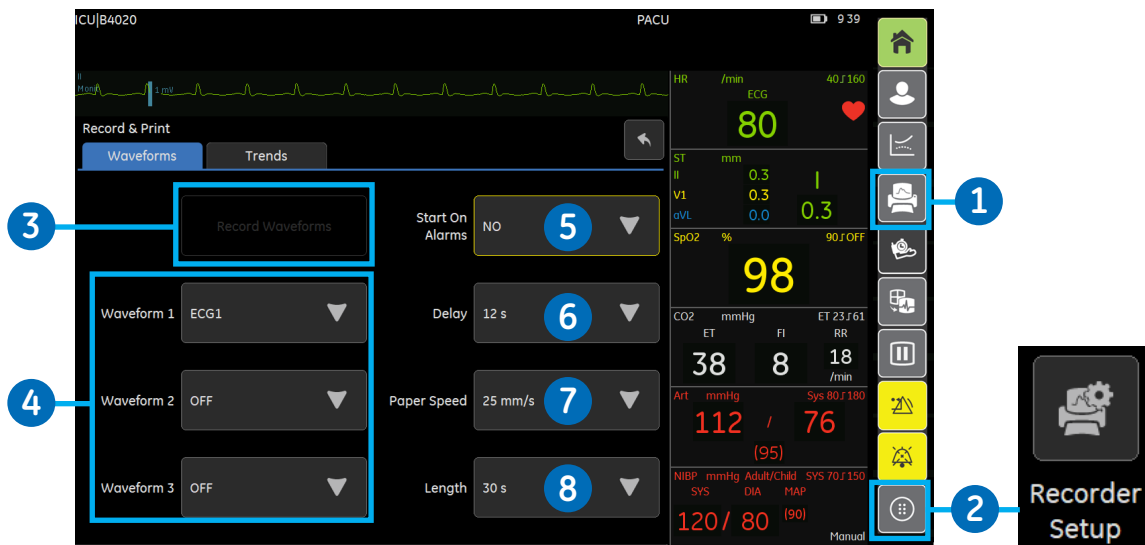
Manual

Alarm History

Alarm history is a list that stores high and medium priority alarms.

1. Select the **Trends** soft key.
2. Select the **Alarms History** horizontal tab.
3. The alarm history list displays the latest 100 alarms. The color of each alarm indicates the alarm priority.
4. The **Snapshot** symbol indicates that there is a snapshot attached to an event, you can click the symbol to view the related snapshot.

6 Printing



Printing Waveforms

Starting and Stopping a Waveform Printout

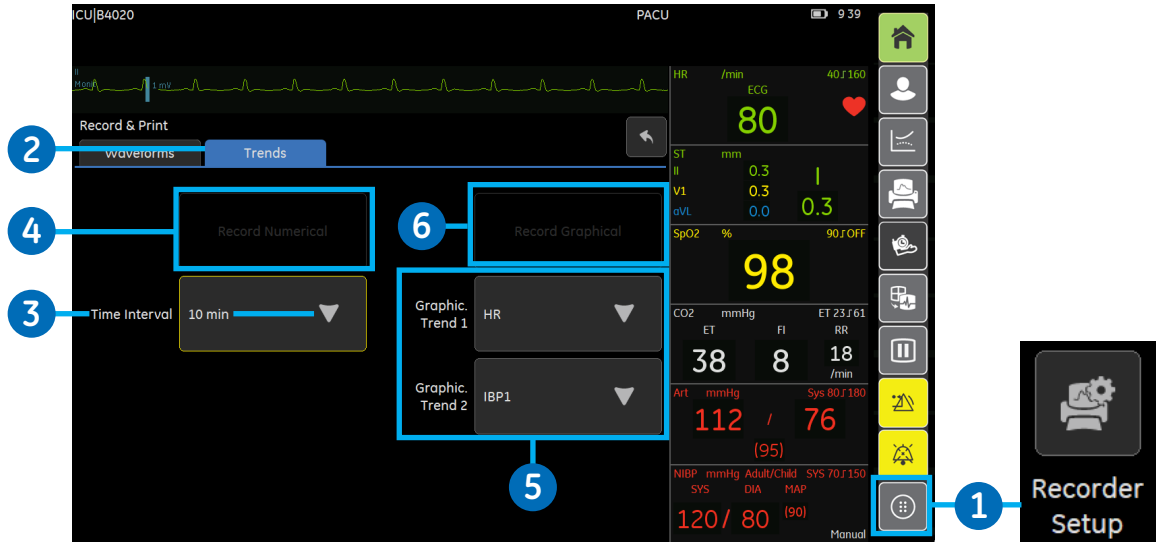
1. Select the **Print** soft key. Alternatively:
2. Select the **More** soft key, and then select **Recorder Setup**.
3. From the **Waveforms** tab, select **Record Waveforms**. Select **Stop Waveforms** to stop printing.

Waveform Printing Options

4. **Waveforms 1, 2, and 3:** Choose the desired ECG lead/parameter for waveforms 1, 2 and 3.
5. **Start On Alarms:** Select **Yes** to activate strip chart printing when certain alarms reach the high priority level.
6. **Delay:** Select a print delay. Choices are **12 s** (waveform printing starts when an event occurs and 12 seconds

prior) and **Off** (manual waveform printing starts with real time data).

7. **Paper Speed:** Select a time value to select the sweep speed for the actual paper speed of the recorder.
8. **Length:** Select a time value for the length of the printout. Choices are **30 s** (30 seconds) or **Cont.** (continuous).



Printing Trends

Printing Numerical Trends

1. Select the **More** soft key, and then select **Recorder Setup**.
2. Select the **Trends** tab.
3. Select the desired Time Interval.
4. Select **Record Numerical** to start printing, select **Stop Numerical** to stop printing.

Printing Graphic Trends

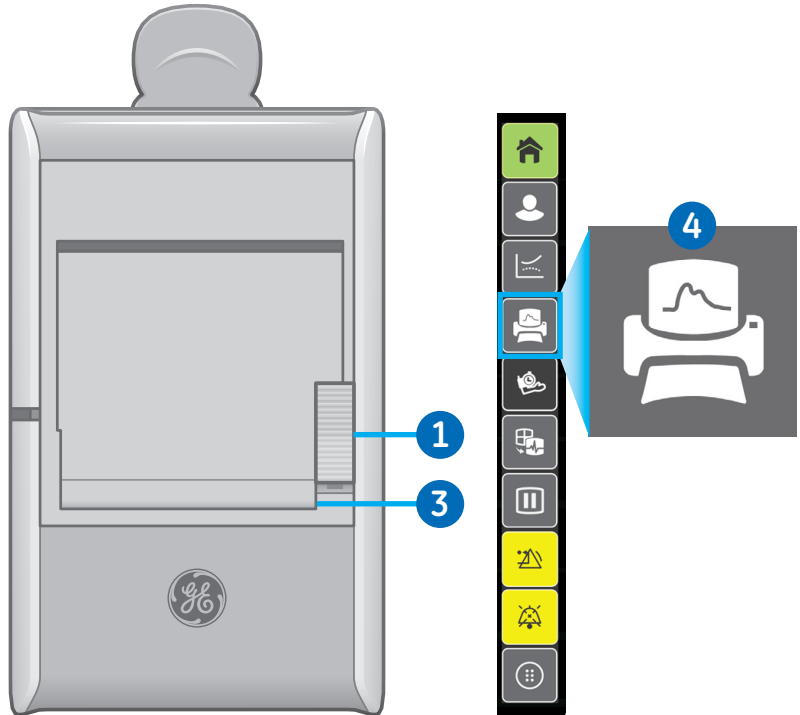
5. Select the parameter for **Graphic Trend 1** and **Graphic Trend 2**.
6. Select **Record Graphical** to start printing, select **Stop Numerical** to stop printing.

Inserting Recorder Paper

1. Press the door latch to open the recorder door.
2. Remove the paper core. Place a new paper roll between the tabs of the paper holder. Make sure the paper unrolls from underneath the paper roll.



3. Pull out 3 to 4 cm of paper, then close the door.
4. Select the **Print** soft key to print out a strip.





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