




# Controls, Indicators and Alarms






## Controls (Buttons)

The ON/OFF switch is located on the rear panel of the SDM 24. The following controls (buttons) are located on the front panel of the SDM:

 Menu/ Previous Level Button	<ul style="list-style-type: none"><li>• to activate the menu</li><li>• to return to the menu on the next higher level (only if 'editing mode' is inactive, exits the menu if pressed while at top level)</li><li>• to deactivate 'editing mode' for the selected menu-parameter*</li></ul> <p><b>Note:</b> Menu access can be disabled by the institution (e.g. for home use)</p>
 UP Button	<ul style="list-style-type: none"><li>• to select a menu-item by scrolling the blue menu bar upwards through the menu (only if 'editing mode' is inactive)</li><li>• to increase the value of the menu parameter for which 'editing mode' is active*</li><li>• to increase the brightness of the display (only if a measurement screen is active)</li></ul>
 DOWN Button	<ul style="list-style-type: none"><li>• to select a menu-item by scrolling the blue menu bar downwards through the menu (only if 'editing mode' is inactive)</li><li>• to decrease the value of the menu parameter for which 'editing mode' is active*</li><li>• to decrease the brightness of the display (only if a measurement screen is active)</li></ul>



 AUDIO PAUSED /AUDIO OFF Button	<ul style="list-style-type: none"> <li>• to pause auditory alarm signals for 1 or 2 minutes (depending on respective menu setting)</li> <li>• to switch OFF auditory alarm signals permanently (by pressing &gt; 3 seconds)</li> </ul> <p><b>Note:</b> Switching off auditory alarm signals is only possible if enabled by the institution.</p> <p><b>Note:</b> This button is inactive if the menu parameter 'Alarm Settings/Alarm Volume' is set to OFF.</p>
 Enter Button	<ul style="list-style-type: none"> <li>• to activate the selected sub-menu or function</li> <li>• to activate/deactivate 'editing mode' for the selected menu parameter*</li> <li>• to confirm temperature and site time settings exceeding recommended values</li> <li>• to activate 'Quick Access Menus' (only if menu is not open)</li> <li>• to terminate the 'Sensor off patient (←) '** and 'Remote Monitoring Interrupted (←)' alarms</li> <li>• to activate the second 'System Information' page (only if first 'System Information' page is open)</li> </ul>
 Display Button	<ul style="list-style-type: none"> <li>• to toggle between the available measurement screens</li> <li>• to deactivate 'editing mode' for the selected menu-parameter*</li> <li>• to exit the menu from any menu level (only if 'editing mode' is inactive)</li> </ul>

\*For parameters that are highlighted with a **blue** menu bar in 'editing mode', changes become effective immediately without confirmation (see example 1 below). For parameters that are highlighted with a **yellow** menu bar in 'editing mode', changes must be confirmed by pressing the Enter Button to become effective (see example 2 below). To cancel changes/deactivate 'editing mode', use the Menu/Previous Level Button or the Display Button.












\*\* will also reset the Site Timer





## Example 1: 'SpO<sub>2</sub> Low Limit'

The parameter 'SpO<sub>2</sub> Low Limit' is included in the menu 'Alarm Settings'. It is an example of a parameter for which changes made with the UP/Down Buttons become **immediately effective without confirmation**. To change the parameter 'SpO<sub>2</sub> Low Limit', proceed as follows:

- Press  to access the menu.
- Press  to open/activate the menu 'Alarm Settings'.
- Press  3 times to scroll down the blue menu bar to the parameter 'SpO<sub>2</sub> Low Limit'.
- Press  to activate 'editing mode' for the parameter 'SpO<sub>2</sub> Low Limit'. Note that the 'Enter' symbol at the end of the line is replaced by up/down arrows and that the color of the menu bar remains blue.
- Press  or  as many times as required to select the desired SpO<sub>2</sub> low limit. Note that changes become effective **immediately**.
- Press ,  or  to deactivate 'editing mode' for the parameter 'SpO<sub>2</sub> Low Limit'. Note that the 'Enter' symbol reappears at the end of the line and that the color of the menu bar remains blue.
- Press  to return to the main menu or  to exit the menu.











**Note:** Changes made with the UP/Down Buttons immediately become effective without confirmation for all parameters except 'Patient', 'Enabled Parameters' and 'Language' (see example 2).



## Example 2: 'Language selection'



The parameter 'Language' is included in the menu 'System Settings'. It is an example of a parameter for which changes **must be confirmed** by pressing the Enter Button before they become effective. To change the parameter 'Language', proceed as follows:

- Press  to access the menu.
- Press  3 times to scroll down the blue menu bar to the menu 'System Settings'.
- Press  to open/activate the menu 'System Settings'.
- Press  3 times to scroll down the blue menu bar to the parameter 'Language'.
- Press  to activate 'editing mode' for the parameter 'Language'. Note that the 'Enter' symbol at the end of the line is replaced by up/down arrows followed by an 'Enter' symbol and that the color of the menu bar changes from blue to yellow.
- Press  or  as many times as required to select the desired language. Note that changes do **not** become effective.
- Press  to confirm the selected language and to deactivate 'editing mode'. To cancel changes and deactivate 'editing mode' press  or . Note that upon deactivation of the 'editing mode' the 'Enter' symbol reappears at the end of the line and the color of the menu bar changes from yellow to blue.



**Note:** After language confirmation, the SDM automatically exits the menu.




**Note:** Operator access to the parameter 'Language' can be disabled by the institution by using V-STATS™ within a password protected area.







### Example 3: 'Confirmation of Membrane Change'

To reset the membrane timer after a successful membrane change, the membrane change must be confirmed on the SDM by using the function 'Membrane Change Done' in the menu 'Membrane Change'. To confirm a membrane change, proceed as follows:

- Press  to access the menu.
- Press  twice to scroll down the blue menu bar to the menu 'Membrane Change'.
- Press  to open/activate the menu 'Membrane Change'.

**Note:** The SDM automatically activates the menu 'Membrane Change' if a sensor with an expired membrane is inside the Docking Station.


- Press  once to scroll down the blue menu bar to the function 'Membrane Change Done'.
- Press  to confirm the membrane change.


**Note:** The menu 'Membrane Change' and the function 'Membrane Change Done' are dimmed grey (not accessible) if the sensor is attached to the patient or inside the Docking Station. In this case, remove the sensor from the patient or the Docking Station to confirm the membrane change.







**Note:** The operating status of the SDM's auditory alarm signals is visually indicated by the 'AUDIO STATUS Icon' (p. 50), the 'AUDIO PAUSED/AUDIO OFF Indicator' (p. 47), and acoustically indicated by the 'AUDIO OFF Reminder'.

 **WARNING:** If an alarm condition occurs while the auditory alarm signals are paused or permanently switched off, the only alarm indication will be visual, but **no** alarm tone will sound.

 **WARNING:** Verify that the alarm volume is adjusted such that the alarm signals are clearly audible for the operator in the intended environment. Do not disable the audible alarm function or decrease the audible alarm volume if the patient's safety could be compromised.

 **WARNING:** Ensure that the speaker is clear of any obstructions. Failure to do so could result in an inaudible alarm signal.

 **WARNING:** The nurse call feature is inactive whenever the auditory alarm signals are PAUSED or OFF.

**Note:** When the alarm system of an SDM that is remotely monitored via V-CareNet™ is in the AUDIO OFF state, the SDM will terminate the AUDIO OFF state if the connection between the SDM and the V-CareNet™ Central Station is interrupted. For details, refer to the Technical Manual for the SDM (HB-005752).

