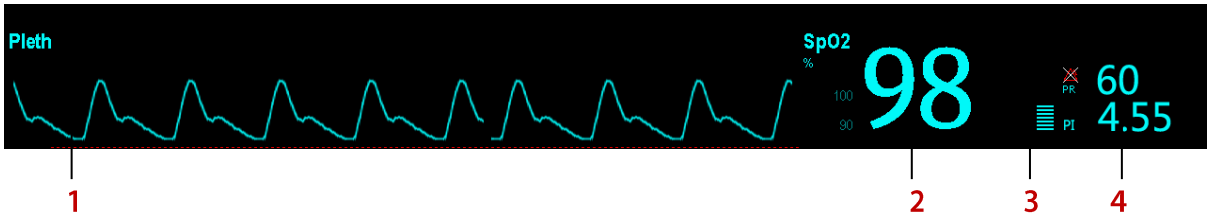
SpO_2 Monitoring
Quick Guide

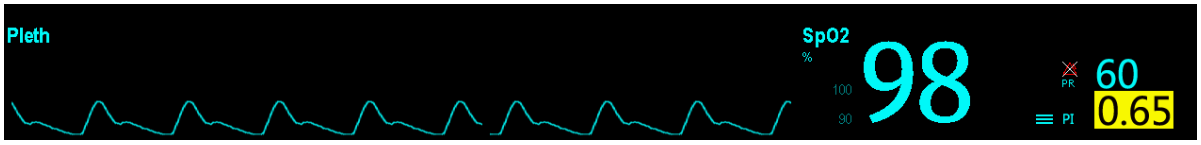
1. **Plethwaveform** (Pleth): visual indication of patient's pulse
2. **Oxygen saturation of arterial blood** (SpO_2): percentage of oxygenated haemoglobin in relation to the sum of oxyhaemoglobin and deoxyhaemoglobin
3. **Perfusion Indicator**: an assessment of the pulsatile strength
4. **Perfusion Index** (PI): An indicator of the arterial pulsatile strength. The quality of the SpO_2 measurement can be assessed using the PI

Perfusion Index above 1.0 is optimal



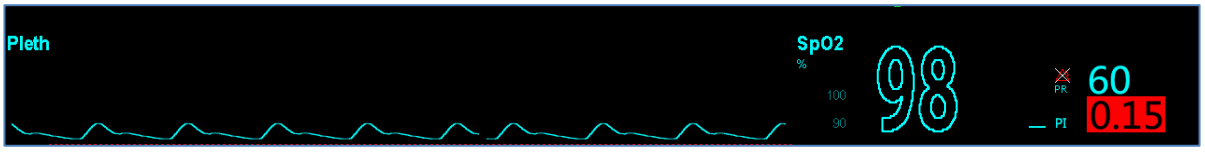
Perfusion Index 0.3- 1.0 is acceptable

Perfusion Index highlighted in yellow to alert user



Perfusion Index below 0.3 indicates low perfusion

Perfusion Index highlighted in red and the SpO_2 numeric becomes hollow to alert user



These guidelines do **NOT** replace the instructions for use and all users should refer to the appropriate **Operator's Manual** for detailed instructions.
The Illustrations may not necessarily reflect the setup or data displayed on your device.

Select the correct sensor for the application site

Apply sensor according to manufacturer's instructions

Inspect the sensor site every two hours

Change the application site every four hours

Inspect and change sensor site more frequently if patients have poor peripheral blood circulation or sensitive skin, if skin quality changes or optimal sensor positioning is no longer achieved

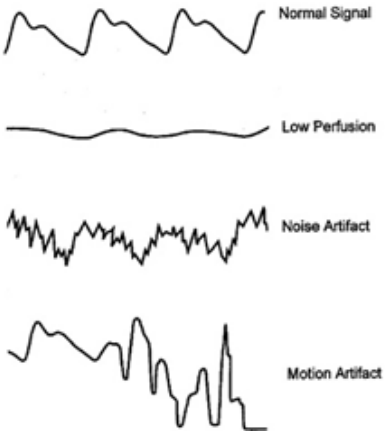
The SpO_2 value displayed on the monitor screen is the average of data collected

Factors influencing the accuracy of measurement

Physical Movement (patient and imposed motion)	Ambient light	Inappropriate selection of sensor and sensor
Electromagnetic interference, such as MRI environment	Diagnostic testing	Dysfunctional haemoglobin, such as carboxyhaemoglobin (COHb) & methaemoglobin (MetHb)
Presence of certain dyes, such as methylene and indigo carmine	Low perfusion	Drop of arterial blood flow to immeasurable level caused by shock, anaemia, low temperature & vasoconstriction for example
Electrosurgical units	Nail polish	Multiple piercings of ear lobes

Examples of SpO_2 Sensors

Examples of SpO_2 Pleth Waveforms



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