Nellcor SatSeconds™ in the PICU/NICU
Alarm Management System

Optimize Your Time and Energy with SatSeconds™ Alarm Management

Traditionally with SpO_2 alarm management, the monitor will alarm when saturation falls outside the alarm threshold. No matter how minor or short the duration. Medtronic has designed an alarm management system that analyzes SpO_2 events to avoid triggering alarms unnecessarily.

SatSeconds Alarm Management

The SatSeconds alarm management system calculates the duration of the event multiplied by the number of percentage points that SpO2 falls outside of the saturation alarm threshold.

SatSeconds Clock

SatSeconds is visible on the monitor and represented by a clock. The full clock represents the SatSeconds setting. The clock may be set to 10, 25, 50 and 100 SatSeconds.

EVENT 1

The patient's SpO_2 drops to 86% and the duration of the event is 2 seconds before the saturation returns above the Low Alarm Limit of 92%.

> 6% drop below the Low Alarm Limit X 2 second duration
> **12 SatSeconds**

Because the SatSeconds Alarm Limit is set at 50 and the actual number of SatSeconds equals 12, there is no audible alarm.

EVENT 2

The patient's SpO_2 drops to 91% and the duration of the event is 25 seconds before the saturation returns above the Low Alarm Limit of 92%.

> 1% drop below the Low Alarm Limit X 25 second duration
> **25 SatSeconds**

The total SatSeconds for this event are 25; therefore, no audible alarm will be heard because the SatSeconds alarm limit is set at 50.
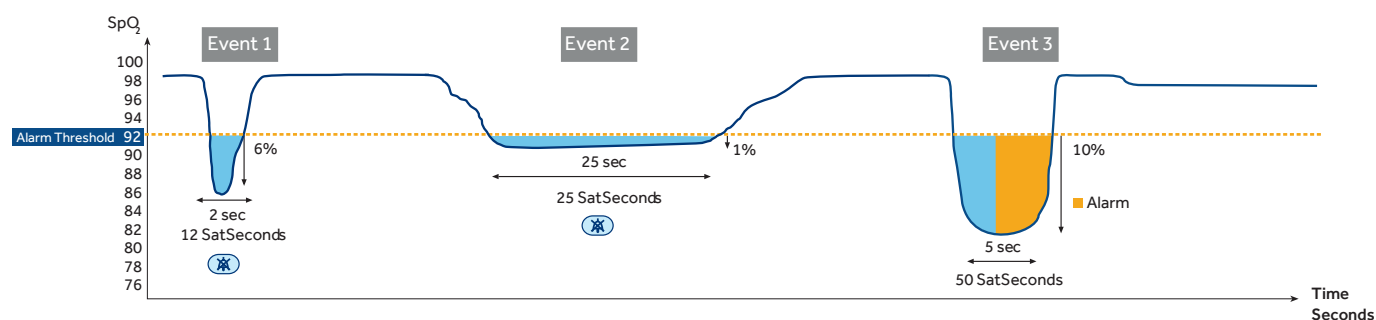
EVENT 3

During this event, the patient's saturation drops to 82% which is 10% below the Low Alarm limit of 92%. Since the patient does not return within 5 seconds, there is an audible alarm.

> 10% drop below the Low Alarm Limit X 5 seconds (maximum time allowed)
> **50 SatSeconds**

At this level of saturation, the event would only be able to last for 5 seconds. However, the patient's saturation did not return within that amount of time.

IMPORTANT:

With 3 or more SpO_2 threshold violations within 60 seconds, alarm will sound whether or not patient has exceeded SatSeconds setting.

Medtronic