



**SatSeconds™ alarm management**

Trusted for safe alarm management—so you can be there when it really matters.



**COVIDIEN**

# Optimize your time and energy with SatSeconds™ alarm management

Nuisance alarms are a common concern with pulse oximetry monitoring. They are often triggered by minor and/or brief desaturations that are clinically insignificant. High Levels of these irrelevant alarms may lead users to deactivate the alarm system or widen the alarm limits.



## SatSeconds alarm management



### 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<sub>2</sub> 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 25 and the actual number of SatSeconds equals 12, there is no audible alarm.

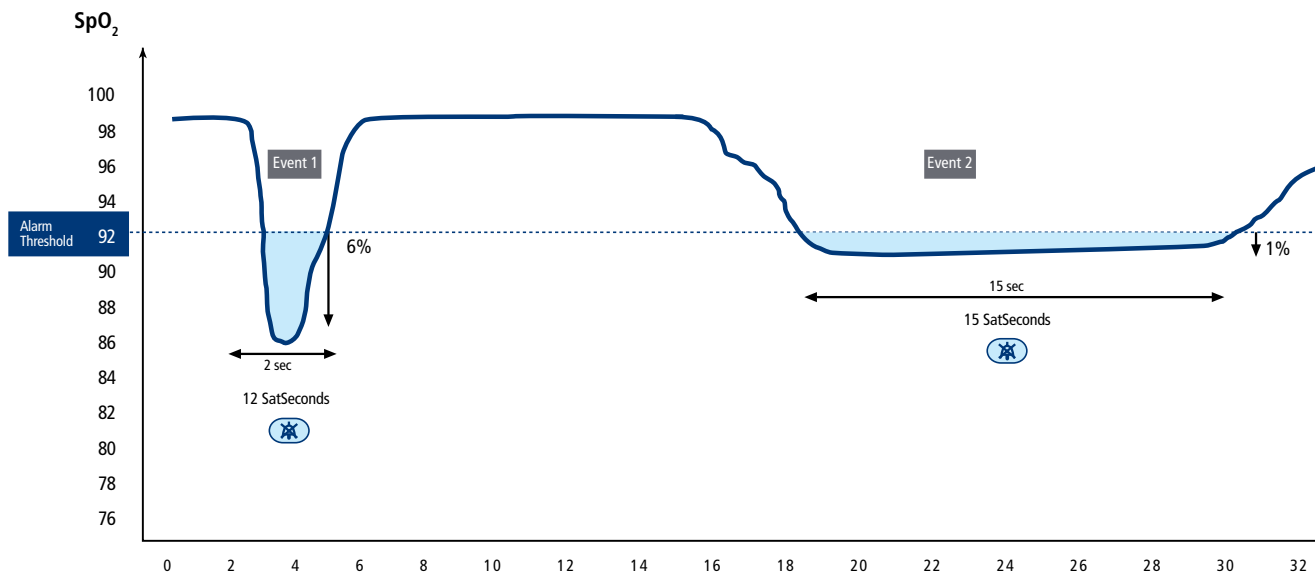


### Event 2

The patient's SpO<sub>2</sub> drops to 91% and the duration of the event is 15 seconds before the saturation returns above the Low Alarm Limit of 92%.

1% drop below the Low Alarm Limit  
X 15 second duration  
**15 SatSeconds**

The total SatSeconds for this event are 15; therefore, no audible alarm will be heard because the SatSeconds alarm limit is set at 25.



Traditionally with SpO<sub>2</sub> alarm management, the monitor will alarm when the saturation falls outside of the alarm threshold – no matter how minor or short the duration. Most users do not want alarm notification to occur for very brief or small changes in saturation.

Covidien has designed an alarm management system that analyzes SpO<sub>2</sub> events to avoid triggering alarms

unnecessarily. The SatSeconds alarm management system calculates the duration of the event multiplied by the number of percentage points that SpO<sub>2</sub> falls outside of the saturation alarm threshold.

The SatSeconds alarm management system is available on the Nellcor™ Oximax™ monitors and OEM boards.



### 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 2.5 seconds, there is an audible alarm.

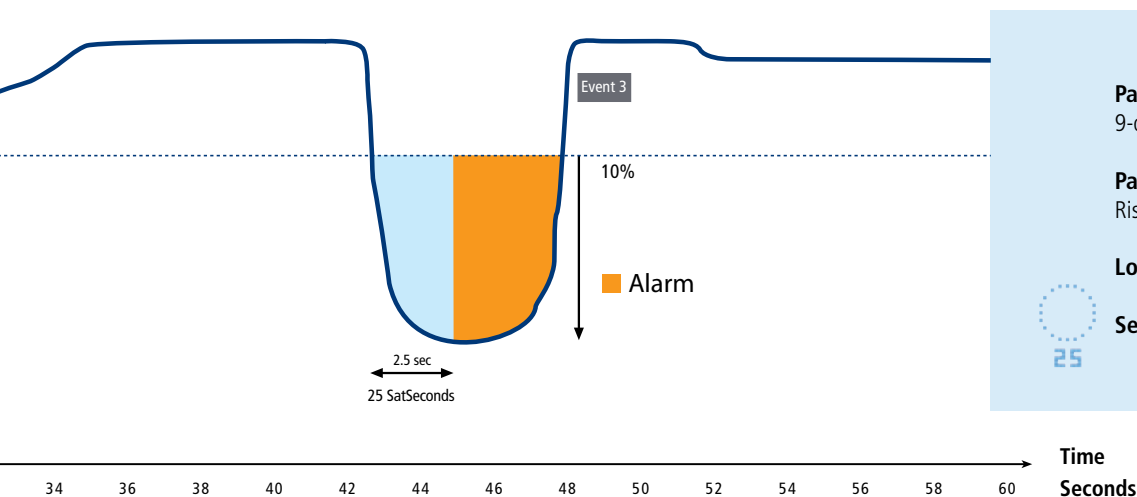
10% drop below the Low Alarm Limit  
X 2.5 seconds (maximum time allowed)

**25 SatSeconds**

At this level of saturation, the event would only be able to last for 2.5 seconds. However, the patient's saturation did not return within that amount of time. Therefore, an audible alarm is heard just under 3 seconds into the event.

## SatSeconds Safety Net

As soon as a third desaturation event below the alarm threshold occurs within 1 minute, the alarm will be triggered, to assure total confidence in your patient management





*SatSeconds™  
alarm management  
allows clinicians to:*

- Customize alarm settings to suit the conditions of individual patients
- Minimize clinically insignificant desaturation alarms by more than 90% without affecting patient safety
- Regain control of their time and activity
- Eliminate false alarms that could cause unnecessary stress to patients and their families



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