

SpO₂ Interface Response Times with Philips (Agilent or HP) CMS Patient Monitors

Monitor	SW Revision	Configuration ¹		Delays ²			
		SpO ₂ averaging time	Alarm trigger delay	SpO ₂ Value		SpO ₂ Alarm	
				VueLink	SatShare ⁵	VueLink ³	SatShare ^{4,5}
CMS V24/V26	Rev. A	SatShare not possible, VueLink not supported					
	Rev. B	N/A	N/A	N/A	8-10 sec	N/A	8-10 sec
	Rev. C thru Rev. F	fast	N/A	4-6 sec	8-10 sec	0 sec (4-6 sec)	18-20 sec
		medium	N/A		12-14 sec		22-24 sec
	Rev. G Rev. H Rel. A.0	fast	0 sec	4-6 sec	8-10 sec	0 sec (4-6 sec)	8-10 sec
		medium	10 sec		12-14 sec		22-24 sec
	Rel. B.0 and C.0	fast	0 sec	4-6 sec	11-13 sec	0 sec (4-6 sec)	11-13 sec
		medium	10 sec		15-17 sec		25-27 sec

default configuration

Notes:

- Whenever averaging time and delay parameters are configurable, the table above shows the Philips monitor's default configuration and a SatShare optimised configuration. Other configurations are possible but will always result in longer delays than the optimised configuration.
- Response times shown in this table are indicative only and may vary with the change rate of the input signal. Processing and algorithm delay of the connected external pulse oximeter are not included.
- The primary alarm is always the alarm on the external pulse oximeter connected to VueLink. Philips (Agilent or HP) CMS duplicates the displayed SpO₂ information with a delay of about 4-6 seconds. There is no audible alarm duplication on the CMS monitor at the bedside.
- Masimo Radical pulse oximeters enable the user to select audible alarming on the Radical pulse oximeter itself when using the SatShare interface. Unless the SpO₂ alarm in the Philips (Agilent or HP) CMS patient monitor is disabled, this configuration causes double alarming, first on Radical and then on CMS. This means the same patient alarm has to be silenced on the two separate devices. The table shows the response times for the SpO₂ alarms on CMS as delayed by SpO₂ signal input via the SatShare interface.
- Radical SatShare is a medical device, which is legally marketed by Masimo, Inc. in the U.S. and many other countries worldwide. SatShare interfaces to already existing Nellcor-compatible SpO₂ channels, such as FAST-SpO₂ in Philips patient monitors. SatShare does not work with Nellcor OxiMax-compatible SpO₂ channels on Philips IntelliVue monitors. Philips is not liable for malfunction, damage or injury caused by use of SatShare with Philips patient monitors.