

The Pason Rig Alarm reacts to alarm triggers from Electronic Drilling Recorder (EDR) settings on the doghouse computer (DHC), **and** from PVT settings. How the Rig Alarm behaves depends on the source of the alarm, as summarized below.

Alarm Source	Alarm Setting	Alarm Behaviour without Smart Alarms	Alarm Behavior with Smart Alarms	
DHC/EDR	Benchmark Min & Max	Honking horn (no light)	No change	
DHC/EDR – Mud Alarms*	Benchmark Min & Max	Honking horn (no light)	Escalating **	
PVT	Trip Alarm	Fast light rotation Three honks of a horn	No change	
	Total Mud Gain/Loss Flow Gain/Loss	Fast light rotation Continuous horn	Escalating **	
	Smart Alarms	Volume only	N/A	Escalating **
		Volume and Flow	N/A	Fast chirp, fast light rotation (existing Smart Alarm pattern)

* Mud alarm behavior applies to these traces: Gain Loss, Total Mud, PVT Mud Gain Loss, Flow 1 Gain Loss, Trip Mud, and Flow.

** Escalating alarms start with a slow chirp and slow light (once every 2.5 seconds) that continue for 60 seconds before escalating to the existing Smart Alarm pattern (fast chirp and fast light rotation). If the user takes action in the first 60 seconds (acknowledge, change limits, disable alarm, etc.) the system won't escalate the alarm pattern.