

Hydro Product Coverage

Corresponding Measurements	Malfunctions																							
	Mechanical, Electrical or Hydraulic Unbalance	Rough Load Zone	Shear Pin Failure	Misalignment	Cavitation	Rotor Rim Movement	Stator Winding Vibration	Stator Core Shift	Uneven Air Gap	Unbalanced Air Gap Forces	Insulation Fault	Excitation Fault	Seal Ring/Discharge Ring Distortion	Excessive Turbine Vibration	Bearing Overload or Fatigue	Insufficient Bearing Lubrication	Stator Insulation Deterioration	Stator/Rotor: Out of Round, Concentricity	Stator Flexing	Loose Stator Laminations	Plugged Stator Coolers	Blocked Stator Ventilation Ducts	Stator Core Overheating Stator Coil Shift	
Guide Bearing Vibration (Runout)	*	*	*	*											*	*								
Thrust Bearing Oil Film Thickness			*												*	*								
Guide Bearing Temperature															●	●								
Thrust Bearing Temperature															●	●								
Once per Rev / reference pulse	*	*	*	*		*		*	*	*			*	*				*	*					
Head Cover/ Draft Tube Vibration	*				*													*	*					
Seal Ring/ Blade Tip Clearance													*	*										
Generator Air Gap						*		*	*	*								*	*					
Stator Frame Vibration								*	*	*										*				
Generator Temperature																					●	●	●	
Process Variables		●	●		●																			
Generator Partial Discharge							*				*						*							
Wicket Gate Position	●	●			●																			
Stator End Winding Vibration							●				●						●							
Stator Bar Vibration							*				*						*							
Brush Monitoring												●												

* vibro-meter sensors and monitoring hardware

● Third-party sensors; fully compatible with vibro-meter hardware/software

● Third-party sensors and monitoring hardware; data integration to VibroSight