

SOFTWARE RELEASE OVERVIEW

vibro-meter®

VibroSight® 5.1



VibroSight® software version 5.1, released in September 2020, adds the following main benefits and features.

Benefits

- Support for the next generation of VM600 machinery protection system
- Rolling-element bearing analysis
- Magnetic-flux monitoring and analysis

Features

VibroSight Protect and VM600 MSPG2

VibroSight 5.1 adds further support for the second generation of VM600 rack-based machinery protection system (MPS), consisting of the following new VM600 cards: MPC4G2/IOC4G2 machinery protection card pair and RLC16G2 relay card.

This new support includes the ability to work more easily with a VM600 rack's internal buses, tachometer signal sharing and jumper configuration.

Note: VibroSight uses VibroSight Protect, a dedicated software module for the configuration and operation of VM600 MSPG2 cards/systems. Using VibroSight Protect ensures complete separation ('segregation') of machinery protection and condition monitoring systems in a VM600 rack.

Rolling-element bearing analysis using VibroSmart® VSV30x modules

VibroSight now supports rolling-element bearing analysis using data from VibroSmart® VSV30x monitoring modules – equivalent to the existing support for rolling-element bearing analysis using VM600 XMV16 monitoring cards.

Rolling-element bearing analysis enables early fault detection and diagnosis of rolling-element bearings

Features (continued)

bearings using vibration signal analysis with either an advanced demodulation (envelope) signal analysis technique and/or simple crest factor measurements.

Magnetic-flux monitoring and analysis

VibroSight improves support for the monitoring of hydro machinery with the addition of magnetic-flux monitoring and analysis to the existing 'Hydro air-gap monitoring' application specific package. Magnetic-flux monitoring involves measuring the magnetic flux density (magnetic field strength), in the air gap (radial distance) between the poles of a rotating rotor inside a stator bore of a hydroelectric generator.

VibroSight's support for magnetic-flux monitoring and analysis helps determine if shorts have occurred in the windings of the rotor poles and complements air-gap monitoring in order to achieve a more comprehensive monitoring solution for larger hydroelectric machinery.

VibroSmart VSV30x firmware update

New VibroSmart VSV30x monitoring module firmware that improves support for hydro air-gap and magnetic-flux monitoring.

Further information

For more detailed information concerning these features and other improvements, refer to the *VibroSight® 5.1 software release notes*.