



SMART MONITORING

Thesmartmeasurementandprocessingfunctions built into MVX are used to collect the highly qualified information required to monitor and diagnose your most critical machinery.

WithMVX,kinematiccomplexityandthevariability of operating conditions are no longer an issue.

SMART DESIGN

With 8 to 32 channels within the same sized instrument, MVX can receive vibration, electrical, oilorprocessinformation, and adapt to your mode of condition-based maintenance.

Thesystemcanbeextendedvirtuallytoseveral hundredchannelsviacommunicationinterfaces with PLCs.

MIGHTYANDPOWERFUL FORCOMPLEXMACHINES

A RESPONSE TO ANY CHALLENGE

MVX can detect and capture transient submillisecondphenomenaover100% of the signal. Time signals are recorded using a «pre-trigger» on all relevant channels so that the event can be analyzed retrospectively.

Its real-time processing capabilities make it possible to:

- captureandrecordatransientphenomenonona turbine for subsequent analysis
- control a rolling mill based on its vibration behavior.



MONITORING OF LOW SPEED SHAFTS

MVX offers an unrivaled solution for the monitoring of lowspeeds hafts with a smart Shock Finder indicator.

Abnormalimpactsonshaftsturningatverylow speeds(fromjustafewrpm)aredetectedearly and fully automatically.

Real-timemanagement of variable operating conditions enables MVX to escalate data required for analysis and allowing comparison over time.

ANALYSIS PRODUCTIVITY

MVX will notify you in real time of any event requiringyourintervention, bye-mail, textmessage or digital output.

The stored data, associated with operating conditions, is highly qualified: no false alarms!

« Reports are accessible in just a few clicks, navigating from a map of the world to a detailed view of a machine. »



MVX

A cost-effective solution to technical challenges

Wagon tipplers are a perfect example: the purpose of the one in this photo is to load boats by overturning the wagons that arrive from the mines.

They operate at variable speed, with acceleration and deceleration phases. The impacts generated by mechanical faults must be distinguished from «normal» impacts relating to their operation, and the low-energy vibrations generated by the slow-rotating parts are drowned out by the vibrations generated by other parts of the machine.

MVX features all of the tools required to reliably monitor this type of equipment.

A CENTRALIZED SYSTEM

ThedataacquiredbyMVXisautomaticallystored intheNESTsoftwareplatform.Analysisofand accesstotheconditionofproductionsitesis simple:reportsareaccessibleinjustafewclicks, navigatingfromamapoftheworldtoadetailed viewofamachine.Wherevermeasurementshave comefrom(aFALCONportableinstrument,an EAGLEonlinewirelesssensor, or an MVX on line cabledmonitoringsystem),thedataisaccessible via the same interface from any connected computer.

« With MVX, kinematic complexity and the variability of operational enconditions are no longer an issue. » En-MF

En-HF

Kurtosis

Shock Finder

FZ

EASY TO DEPLOY

MVXcommunicatesandtransfersitsresultsin automaticallyandreliablytotheNESTsoftware via a secure Ethernet link.

Operators can choose to use the local cabled network,aWi-Finetwork,orovertheInternetviaa 3G link, for example.

INTEGRATED INTO YOUR ENVIRONMENT

MVX can be fully integrated into your environment.Processinformationisretrieved directlyfromthePLCs,eliminatinganyduplication ofdata.Theadvancedindicatorsdefinedcanbe transmittedinorderimproveprocessmanagement, andmaintenancemanagementisoptimizedthanks to an interface with the CMMS system.

Shock Finder automatic filtering

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→ AUNIQUESYSTEMWITHINFINITECAPABILITIES

SMART MONITORING

- · Real-time monitoring of one or more machines
- · Storage of measurements required for analysis: the right information at the right time.
- Easy analysis of complex machines through management of operating conditions
- · Early detection of faults on slow shafts with Shock Finder

COMMUNICATION

- · Two-way communication with **PLCs**
- · Alerts by e-mail / logic outputs
- · Management of sub-optimal communication conditions (3G) for isolated machines

FLEXIBLE

- · All types of sensor
- 8 to 32 channels
- · Number of channels can be extended for process information using Modbus and **OPC** interfaces
- · Option: portable version for temporary monitoring (VMS)

ALL IN ONE

- · Monitoring of vibrations
- Monitoring of oil (quality, particle count)
- · Correlations with process information







Distributor in Egypt

