

OneproD

MV6

Multi-channel protection and predictive maintenance system



OneproD_{MV6} is a real-time multi-channel vibration monitoring system.

OneproD_{MV6} consists on a 19", 6U industrial rack. Its modular structure with 4 channels MSVU modules allows for the connection of up to 52 transducers for real-time monitoring.

Suited for both journal bearing machines and ball bearing machines, OneproD_{MV6} accepts either industrial IEPE accelerometers or proximity probes.

The system provides one or several vibration indicators for each sensor. All of them are fully configurable on site.

In particular programmable high-pass, low-pass or band-pass filters can be very quickly defined even when OneproD_{MV6} is installed.

OneproD_{MV6} generates alarms and provides 4-20mA recorder outputs.

BNC connectors on the front panel and removable terminal blocs on the rear panel are available for dynamical signal analysis or connection to data collector.

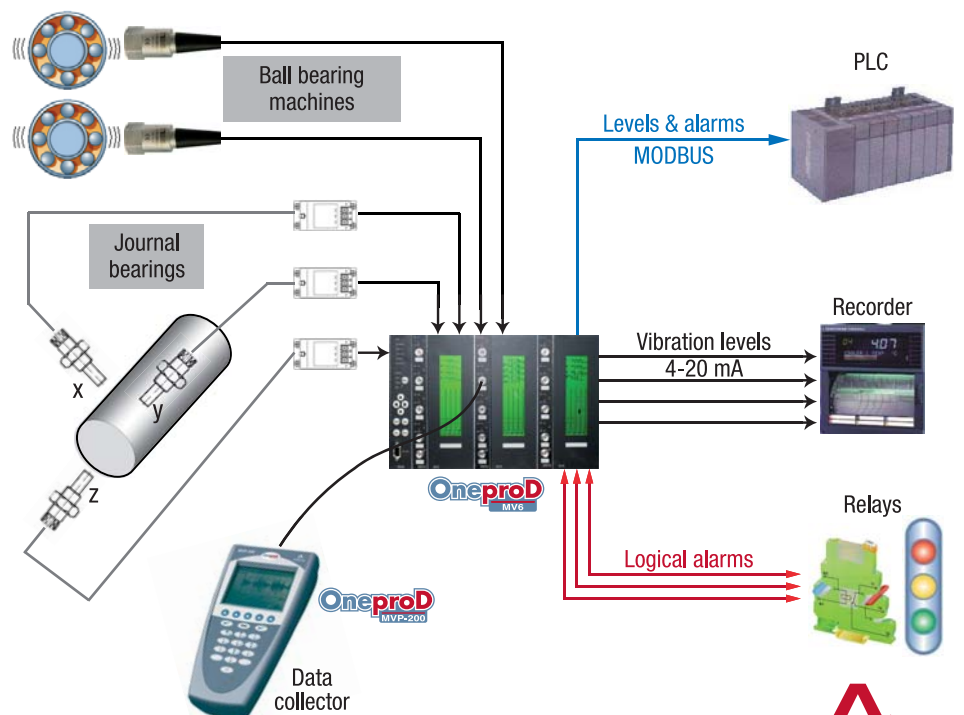
OneproD_{MV6} has been designed with a total care for security and is compliant with the main specifications of API 670 and 678, ISO 2954 and 7919 standards.

In addition to its protection functions, OneproD_{MV6} can be coupled to OneproD_{XPR} trending and predictive maintenance platform through a MVX module.



Benefits

- Channel capacity
- Modularity
- Setup flexibility
- Programmable filters



Main features MV6

Characteristics	Rack MV6
Dimensions	19" x 6U x 550 mm
Capacity	Up to 13 x 4 channels MSVU modules without barograph or Up to 3 x 4 channels MSVU modules with barographs Maximum capacity : 52 channels
Power supply	Input voltage: 115/230Vac Maximum input power: 250 W
Security	Separated power supply for each module Permanent internal supply voltages monitoring Permanent internal memory monitoring Watchdog Permanent sensor bias voltage monitoring Over scale & Clamping monitoring Reinforced EMC protection
Connectors	Removable terminal blocs Opening rear panel with cable glands designed for circular shield connection
Communication	1 RS 232 DB9 connector on the front panel 1 RS485 terminal bloc on the rear panel Monitoring setup using standard MOVISSET software (included) MODBUS communication for levels and alarm status

Characteristics	MSVU Module
Inputs	4 monitoring channels: Accelerometer, velocimeter or proximity probe system 1 tacho channel : TTL input or proximity probe system (power-supplied by MV6) 1 0-24Vdc logical input for « trip multiply » function Power supply for accelerometers: 4 mA ou 10 mA Power supply for proximity probe drivers: -24V / 15 mA each, short-circuit protected
Outputs	4 recorder outputs: 4-20 mA or 0-10V 5 BNC waveform signal outputs (4 channels + tacho) on the front panel 4 waveform signal outputs available on the rear panel terminal bloc 4 logical NPN type outputs for alarms (relay driving)
Signal processing	4 available indicators per MSVU module: 1 for each sensor or 2 for 2 sensors, etc. Possible integration or double integration Possible ISO2954 10 to 1000 Hz filters Programmable band-pass filters True or equivalent peak or, peak to peak, calculation, RMS calculation. Smaxpp vibration level calculation Kurtosis indicator calculation GAP
Alarms	2 thresholds : Pre-alarm & Alarm Alarm & pre-alarm delay : 0 to 30s Programmable alarm logic Positive or negative logic for relay commands Latched or non-latched alarm status
Visualisation	4 LED for each channel: <ul style="list-style-type: none"> ■ OK ■ Pre-alarm ■ Alarm ■ Bypass Optional barograph module for 4 channels. (This option reduces the rack capacity)

