

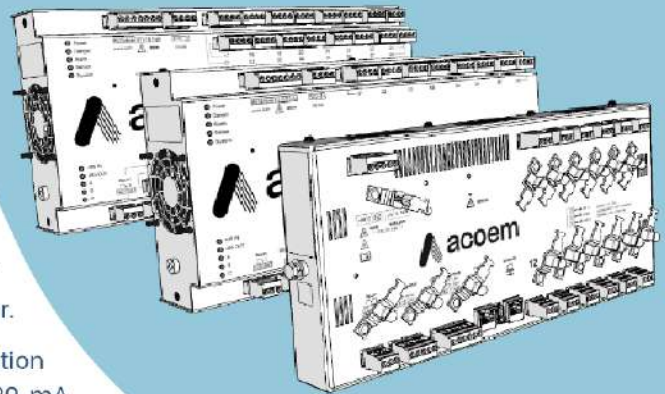
# MV-x Technical Datasheet



## Real Time Monitoring and Diagnosis of critical assets

The self-contained and intelligent Acoem MV-x system is intended for real time multi-channel monitoring of rotating machinery, enabling the early detection of faults, even on the most complex machines. It is the culmination of ACOEM's 50 years' experience of machinery monitoring throughout the industrial sector.

ACOEM MV-x is a versatile system offering 6 to 32 data acquisition channels for all signal types (IEPE, AC voltage, DC voltage, 4-20 mA, impulses). With its flexible configuration options and extensive calculation capacity, this system makes it possible to implement intelligent and targeted localised monitoring.



### Real Time Monitoring & Diagnostic capabilities

## Real Time Monitoring

Real Time Overalls	Standard Overalls	Acceleration, velocity, absolute displacement, relative displacement, relative position, High pass and low pass filters can be selected depending on the type of indicator.
	Value calculated per indicator (customizable)	RMS value; "equivalent peak" value; "equivalent peak-to-peak" value; "true peak" value; "true peak-to-peak" value
	Scanrate	Every 80ms after first value calculation at monitoring start up
Alarming	Alarm levels	up to 4 alarm levels per indicator (pre-alarm, alarm, danger and error)
	Alarms type	High, Low, In range, Out of range
	Prevention against false alarms	Alarm Hysteresis settings Alarm retention (alarm must be valid during user defined period to be validated) Management of alarm thresholds per operating condition with Acoem MCT™
Multi-physical monitoring	All sensors needed for an efficient monitoring can be connected : Accelerometers, Tachometers, Current clamp, Thermocouple... Each channel can be configured individually to adapt to any type of input: IEPE AC, IEPE DC, 4-20 mA, voltage input (AC+DC, DC), impulse counter, tacho input (0,2Hz to 17kHz).	

## Variable speed machine management with Acoem MCT™

Real Time Machine Condition Tracking	Machine operating status is updated every 80ms for real time reactivity to any event
Management of variable operating conditions	Up to 10 operating conditions can be defined per machine for a tailored monitoring
Fallback condition management	In case of communication loss with the process info, MV-x keeps monitoring the asset in Fallback condition (user customizable)
Number & type of operating parameters	Up to 6 parameters (3 scalars + 3 binary) can be used to define the operating ranges
Machine Operating Condition validation Criteria	Settings available to improve data quality: RPM Stability (%), Temporization (s), Condition Stability during measurement (Permanent or none),