



Series 18 System

The powerful new features of the next generation Motornostix® system put you in command, capturing health and performance information with greater accuracy, flexibility and control.

Support for intermittent applications

While some manufacturing processes run continuously, many operate on an intermittent basis, starting and stopping (or idling) at irregular intervals. The Series 18 system uses sophisticated start and end-of-process detection to synchronize its data collection with your application to ensure that valid measurements are recorded.

Spectral capture on alarm condition

The capture of spectra can be triggered within seconds of an alarm condition, so you can see the detailed behavior of your equipment at a time when you most need it. Nuisance alarms can be minimized by specifying an alarm depth, which determines the number of readings required to trigger an alarm.

Spectral oversampling

Up to 32x oversampling (including 4x interleaving) is now supported when capturing spectra. This yields a configurable Fmax as low as 440Hz with 14,000 lines of resolution (32 lines per Hz). This provides the highest precision data for detailed analysis and problem diagnosis.

Verifiable spectral integrity

Variations in RPM during sampling causes compression/rarefaction of the time waveform and can significantly impact the integrity of the spectrum. The Series 18 now records tachometer pulses in real-time during sampling, and displays the RPM over the capture period when the spectrum is viewed, making it easy to verify spectral integrity.

Configurable spectral capture

Multiple spectral capture profiles can be defined. Each profile identifies the channels to be captured, the Fmax, group interleaving and the oversampling rate, and can be triggered as and when required.

Frequency trending

Now you can track and trend key frequencies specific to your equipment (vane pass, for example). A profile is defined that includes the frequency band and measurement type (average, RMS or peak). These key indicators are then captured at regular intervals and are valuable in surfacing operational anomalies.