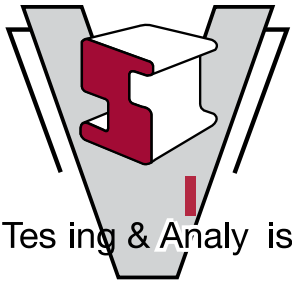


TRANSIENT TORSIONAL VIBRATION MONITORING SYSTEM™



TTVMS

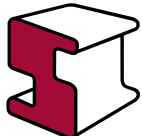
The acronym for industry proven technology to monitor torsional vibration is TTVMS



Features:

- Time history
- Peak detection
- Root-mean-square (rms)
- Digital filtering: low pass, high pass, band pass; 2 to 10 poles
- Frequency spectrum using the FFT with outputs in power, root-mean-square (rms), peak, power density, rms density
- Orbit plots (two selected channels)
- Integration, single or double (two selected channels)
- Differentiation, single or double (two selected channels)
- Three Operating Modes: Automatic Monitoring, Manual Session, Data Analysis

TTVMS™ is a product of



Structural Integrity
Associates, Inc.®



Pull-out Keyboard/ Touchpad Combination



USB CD-ROM Reader



Utility Drawer for Storing CD-ROM and Other Accessories

TTVMS™ Transient Torsional Vibration Monitoring System

Structural Integrity Associate, Inc., (SI's) TTVMS™ uses pulse trains from speed probes installed in the turbine housing around the speed pickup gear as the main input. The incoming signal is demodulated to create a voltage that is proportional to the instantaneous speed, which allows interpretation of dynamic variations in rotor speed as torsional vibration. Auxiliary inputs from various electrical transmitters can also be recorded for correlation with torsional events. The screen capture below shows the Automatic Monitoring Session screen, where four selectable frequency bands can be monitored on each of the five monitoring channels.



HARDWARE SPECIFICATIONS

Number of Channels:	16 (8 torsional)
Max Sample Rate:	12,500 samples per second per channel
Typical Sample Rate:	1,024 samples per second per channel
Resolution:	16 bit
Frequency Bandwidth:	900 Hz (assuming 60 pulse per rev. encoder at 1800 RPM)
Anti Aliasing Filter:	Analog 8th-order lowpass elliptical
Max. Input Range:	+/- 5V
Min. Input Range:	+/- 0.01V
Analog Outputs:	6 independently isolated 12-bit DAC channels
Relay Outputs:	8 independent SPDT (Form C) nonlatching
Recording:	All channels simultaneously
Recording Time:	20 seconds to 5 minutes per event (1 minute typical)
Data Storage:	Hard disk
Backup:	USB flash memory drive

For more information please contact:
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