New Launch!

VIBRATION DATA COLLECTOR

New Launch!

True 2/4 Channel Vibration Analyzer Cum Alignment Tool

701TXV

CE ISO 9001:2015
"Quality management systems. Requirements"
INTERNATIONAL STANDARD

VibAnalyst™
Visualize & Analyze Vibration

Vibration Route and Analysis Management Software

for KOHTECT Instruments

701TXV C911 SA 107VF

Cost Effective Solutions with Unbeatable Quality is Our Priority!

CONTACT

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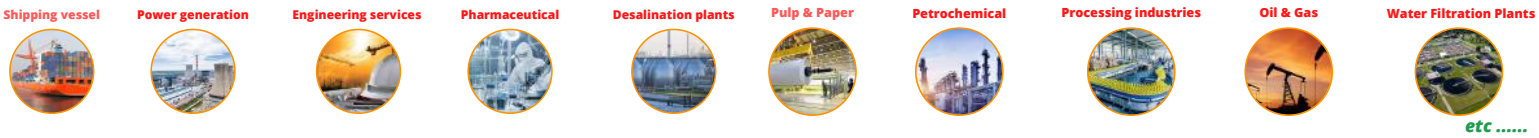
True 2/4 Channel Vibration Analyzer Cum Alignment Tool - 701TXV

Application



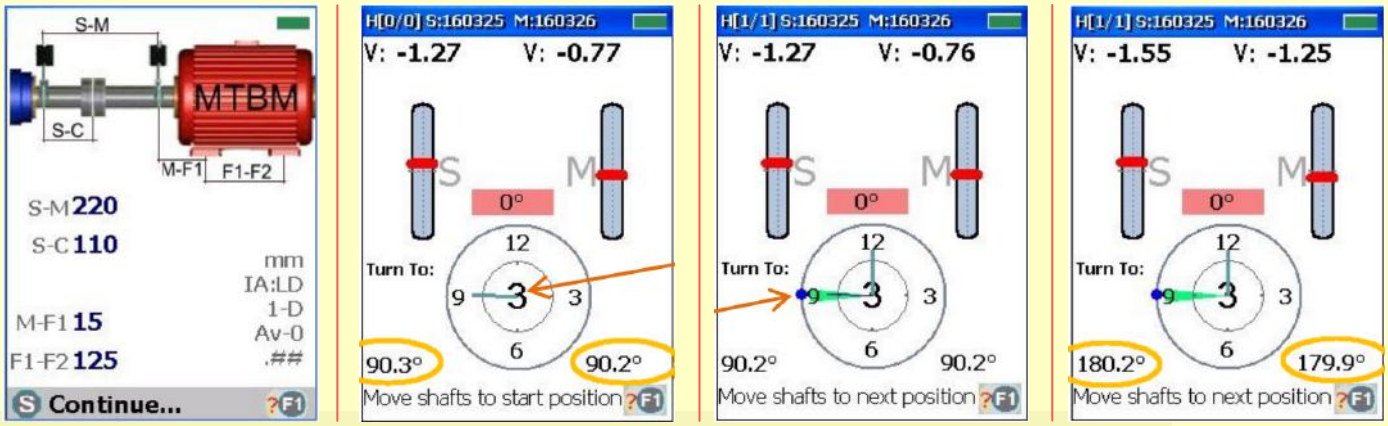
Features – Technical Specifications

- Display: TFT¼. VGA 320x240 with a built-in backlight, sunlight-readable 3.5" standard size.

Measured parameters:

- Acceleration, velocity, displacement & dynamic signal including current.
- Real-time measurement and display of Time waveform, FFT spectrums, enveloping, and overall amplitude on a single sensor
- Simultaneously 4 channel spectrum display.
- Window: Hanning, Blackman, rectangular and flat
- The MCSA of the machine for locating fault frequencies on current spectra
- Condition monitoring and fault detection of induction motors.
- Synchronous analysis.
- Measurements: Overall acceleration, velocity, and displacement, time wave from
- Detection: RMS, peak, peak to peak, and true peak
- Amplitude detection modes: 0 to peak, true peak, peak to peak, RMS.
- Severity: ISO 10816
- Tachometer measurement range – 10...200,000 rpm
- Accuracy – ±0.1% and ±1rpm
- Frequency range independently selectable F min and F max, minimum from 0.5 Hz and maximum up to 50 kHz, with suitable anti-aliasing filters.
- Window: Hanning, Blackman, rectangular and flat
- Trigger: External, Internal, Free Run. Selectable Measurement units- English/ Metric.
- Ruggedized to withstand humidity, temperature, and impact on dropping of equipment.
- Cursor: Single, harmonic, peak, band cursor, and mark cursor
- Laser Alignment functions with transducers
- AD conversion – 24 bits | Dynamic range: 106dB
- Number of channels: 2 or 4 analog channels and one additional channel for the tachometer probe
- Memory: 8 GB | PC Communication interface: USB
- Operating Temperature: 0°C to 50°C
- IP 65 & CE certification
- Impact-resistant ABS enclosure with TPE protector
- Carry case with foam insert.
- Dimensions: 215 x 100 x 40mm. & Weight: 0.4 kg.
- Rechargeable built-in battery: Li-Ion, up to 8 hrs continuous operation and include battery charger module
- Resolution: 100 – 25,600 lines
- Pen drive with software, manuals
- Carry case
- Vibration sensor: 3-axis measurement
- All channels are individually configurable for different frequency ranges, windowing, average type, and synchronous operations
- Alphanumeric comments (notepad utility) for any special observation during data collection

Laser shaft alignment system Temperature sensor



Hardware

- IEPE/ICP or charge type accelerometers with known sensitivity switchable, proximity sensor, Optical RPM transducer.
- CPU Processor: 400MHz.
- Ruggedized aluminum enclosure with TPE protector.
- Dimensions: 210 x 170 x 50mm.
- Accelerometers, cable, magnet for mounting – (Triaxial& uniaxial), Laser/Optical Tachometer probe, cable, and magnetic stand
- Pen drive with software, manuals
- Instrument memory- 8/16/32 GB

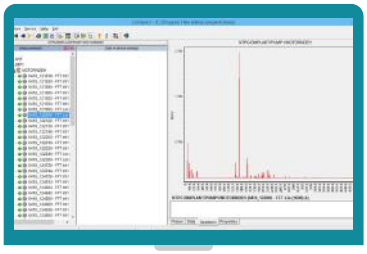
Severity: ISO 10816

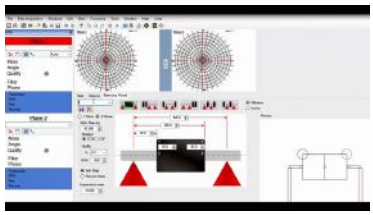
VIBRATION SEVERITY PER ISO 10816

Vibration Velocity Vrms	Machine in/s	Machine mm/s	Class I small machines	Class II medium machines	Class III large rigid foundation	Class IV large soft foundation
	0.01	0.28				
	0.02	0.45				
	0.03	0.71		good		
	0.04	1.12				
	0.07	1.80				
	0.11	2.80		satisfactory		
	0.18	4.50				
	0.28	7.10		unsatisfactory		
	0.44	11.2				
	0.70	18.0				
	0.71	28.0		unacceptable		
	1.10	45.0				

Software features

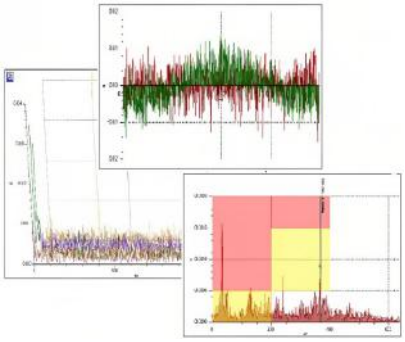
- Simultaneous display of trend and spectrum.
- Basic statistical alarm management
- Large in-built library of bearings of all manufacturers.
- Dashboard showing a bird's eye view status, via data in the backend.
- Backup storage of data
- Equipment Hierarchy configuration
- Post-collection filtering and FFT range measurement
- Machine History viewer, asset history management, copy and paste of similar machines
- Software includes database management, trending, report generation, and Bearing analysis
- Standard analysis software for data download/upload from instrument to PC with lifetime validity.
- Alarms based on values (overall limit, % change limit) for overall as well as unlimited narrow-band spectral data.



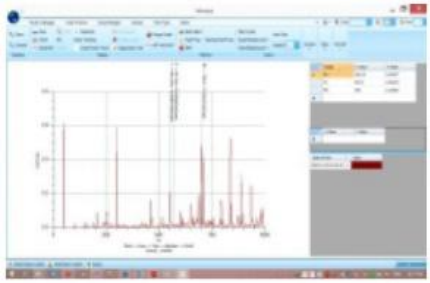


Single and Dual plane Balancing.

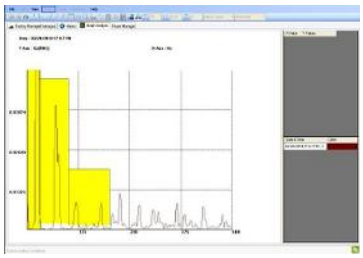
Fast but simpler navigation, naming prioritizing & labeling freedom within the hierarchy



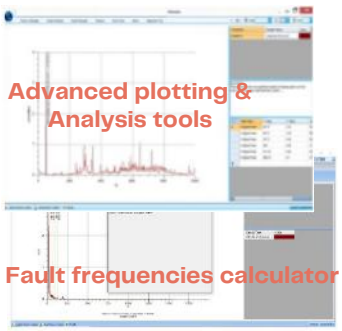
Smooth & super-easy management of display toolbars & graphs-color



Reporting: Multiple layout designation(s) in other word processors /spreadsheet formats



Database management of Machine Vibration, 2D and 3D trend plot



Multi-window plotting with different frequency range for analysis

The software has incorporated a large array of analytical functions.
Managing, data/graph/zoom/area display/ alarm/ cursor management, and single, dual or multidimensional analysis.

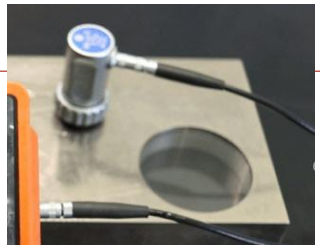
Coming Soon

Hardware

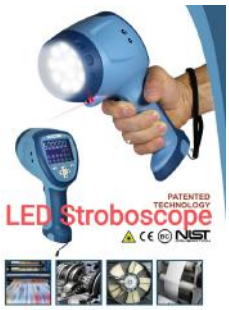
- Types of measurement: temperature, and process parameters.
- Temperature measurement range: -70°C to 380°C
- Cross-channel analysis facilities include cross-phase, cross-spectrum, and cross-channel waveform.
- Various fault & root cause identification: Including bearing, misalignment unbalance & looseness.
- Natural frequency estimation
- Automated Diagnostic Software
- Orbit Analysis
- Coherence

Display Options

- ***Touch Screen - 5" inch - 800x480 (resolution)***
- ***Touch Screen - 7" inch - 800x480 (resolution)***



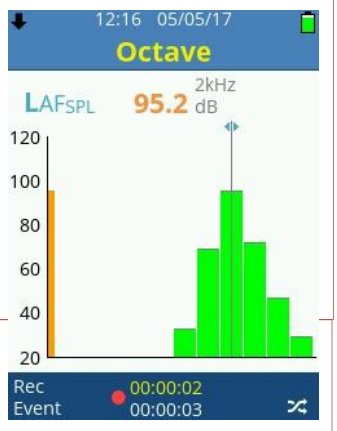
Ultrasound measurement facility by using acoustic sensors



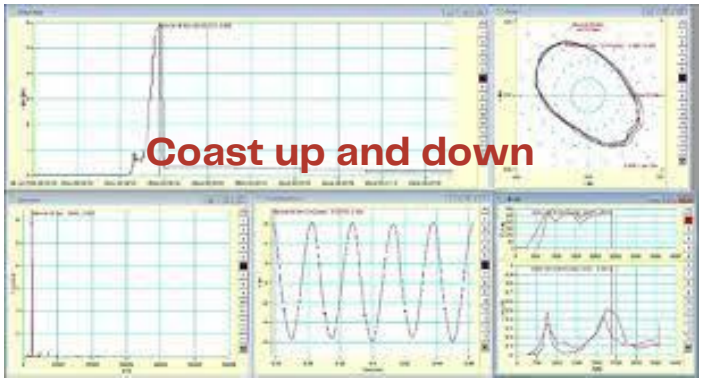
Headphone

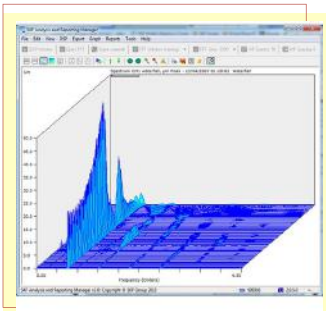
Software

- Machine Fault Finder software
- Dual monitor support, management reporting, quick report
- Advanced statistical alarm management, different report format.
- Fault details of peaks, severity, reference spectra repair requirement.
- Cascadeplotting: FFT spectrum waterfall during machine start-up and coast down with plot display, storage, and download facilities, both in the instrument and software.
- Alarms on Fault Frequencies

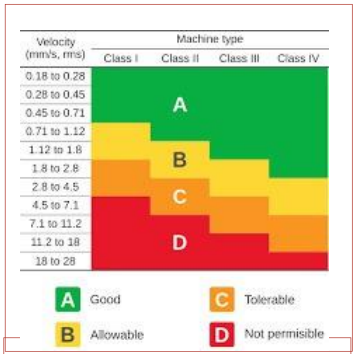


1/1 octave and 1/3 octave analysis





Periodical overall data trend and band parameter trend, FFT spectral trend in a waterfall manner, with the projection of failure lead time prediction (in software).



Alarms based on values (overall limit, % change limit) for overall as well as unlimited narrow-band spectral data

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