STD-500

Vibration Data Collector

- Always with you
  pocket size
- Analyze spectra onsite
  built-in FFT
- Gain exact knowledge
  3200 lines resolution
- Memory in excess
  stores 500 waveforms
- Secure data storage
  nonvolatile memory - 8 Mb
- Easy to use
  2 buttons only
- Advanced expertise on PC
  USB link
- Ready for action
  internal sensor
- Intrinsically Safe
  1ExibIIBT3X

- Ideal instrument for everyday inspections of machinery health: fast vibration measurements, clear user interface for data collection and analysis, directly compatible with all Technekon expert applications.

Technekon

Vibration data collector STD-500 is a hand-held 1 channel vibration measurement instrument with internal spectrum analysis functions. It is used for offline machinery condition monitoring.

The STD-500 collector is fully compatible with all Technekon software products (VibroDESIGNER and VibroSCOPE). It collects vibration measurements at on-route or off-route control points, allows spectra analysis onsite, and downloads data to PC for advanced narrow band analysis and trending.

- Velocity, displacement and acceleration RMS values are viewed on STD-500 display. All collected data are stored in protected memory.

- A screenshot example in FFT analysis mode. Using control buttons you can zoom spectra.

STD-500

Vibration Data Collector for Machinery Diagnostics

Technical Specification

Analog input	1
Frequency range	10-1000 Hz
RMS velocity range	0,5-70 mm/s
Frequency resolution	3200 lines
Memory for data	8 MB
Noise level	< 0,2 mm/s
Temperature	-20...+50 °C
Ambient humidity (+35°C)	90%
Dimentions	186 x 35 x 21mm
Weight	150 g
Battery runtime	10 hours

With this pocket vibration measurement instrument you can control machinery vibration condition, detect failures, prevent unscheduled downtime of industrial facilities, and optimize maintenance actions.

Technekon

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Technekon

STD-3300 Analyzer

Analyzer STD-3300

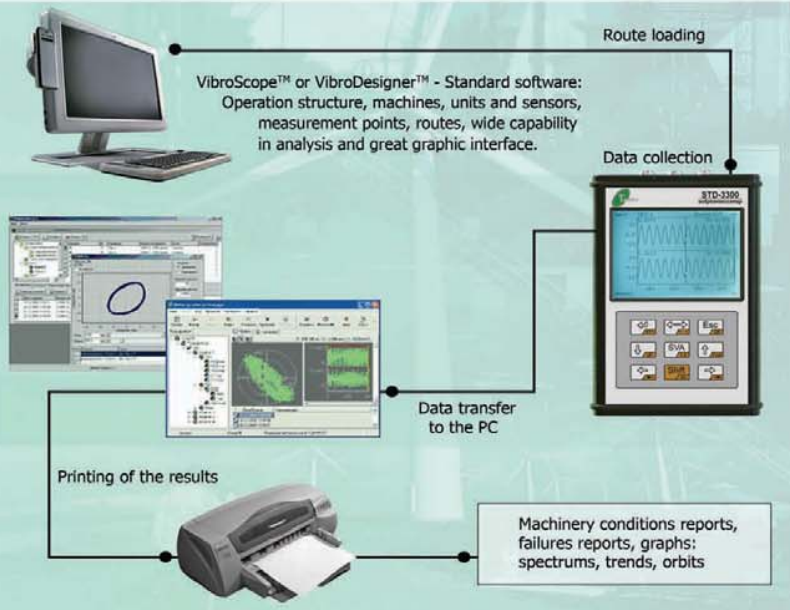
2-channel portable unit for vibration data collection, processing and storing

- Detection of failures in compressors, pumps, turbines, fans, electric motors
- Vibration data collection, analysis and storing
- Wide frequency range and embedded spectrum analysis
- Provide early warning of imminent faults
- Evaluate actual machinery conditions
- Avert emergency accidents
- Out-of-balance condition detection
- Field 2 plane balancing program
- Input for stroboscope
- USB port for route loading and PC connection
- Complete compatibility with VibroScope™ and VibroDesigner™ software
- Unlimited data retention in Analyzer's memory

Standard Accessories:

- Velocity output sensor VP-9 with integral cable
- Magnet holder for sensor mounting
- Probe tip
- Tacho probe
- Tacho probe holder
- USB cable
- Charger
- Analyzer carrying case
- Transit case
- User manual

Using VibroScope™ and VibroDesigner™ software for STD-3300 Analyzer



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Specification:

Display	3,8" 320 x 240 LCD, monochrome, graphic, touch-sensitive, illuminate display
Dimensions	6,7" x 4,3" x 1,4" (170 x 110 x 35 mm)
Weight (with battery), oz	24.65 (700g)
Protection standard	IP 54
Temperature range, °C	-20 to +70
Battery	
Battery type	Ni-MH, build-in
Capacity, A/h	4.5
Continuous operation, hours	18
Rechargeable time, hours	8
Spectral analysis	
Measure	Acceleration, Velocity, Displacement, Rotation
Signal types	Time waveform, Spectrum, Orbit,Track
Channels	2 analog vibro-channels, 1 tacho-channel
Displacement measurement range, in	0,39 (10 mm)
Velocity measurement range, in/sec	3,9 (100 mm/sec)
Acceleration measurement range, g	50 (500 m/sec2)
Rotation, rpm	1 to 250 000
Fmin possible range, Hz	0 to Fmax
Fmax possible range, Hz	500 to 32000
FFT resolution, lines	3200, 6400, 12800, 25600
Number of wave samples	8192, 16384, 32768, 65536
Number of averages	0 to 256
Averaging type	Linear
Scales	Linear, Logarithmic, 1/1 octave, 1/3 octave
Flash memory, MB	256

RAM, MB	32
A/D converter	24 bit
Dynamic range, dB	Up to 109
Sampling frequency, kHz	Up to 82
Balancing speed range, rpm	10 to 60 000
Balancing measurement type	Acceleration, Velocity, Displacement
Number of planes	1 or 2
Manual data entry	Yes
PC connection	USB
Sensor	VP-9

VP-9 Sensor Specification:

Sensitivity, mV/in/sec	144 (8mV/mm/sec)
Transverse sensitivity, %	≤5
Velocity measurement range, in/sec	0.0039 to 5.9 rms (0.1 to 150 mm/sec rms)
Max acceleration value	50 g, rms
Non-linearity	≤1%
Frequency range (±1 dB), Hz	5 to 5000
Self-noise, in/sec	≤0.001
Sensitivity change depending on temperature, %/°C	≤0.2
Supply current, mA	≤10
Temperature range, °C	-40 to +85
Installing surface temperature, °C	-40 to +100
Power supply, V	5.5 to 6.7
Dimensions, H x D:	
without cable	2.36" x 0.87" (60x22 mm)
with cable	2.36" x 31.5" (60x800 mm)
Weight, oz:	
without cable	2.1
with cable	7.05
Protection standard	IP54

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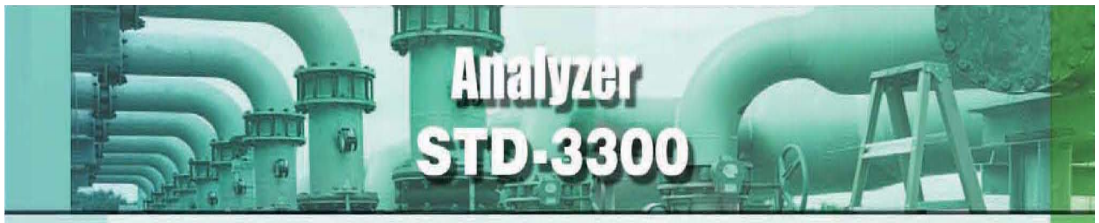

2-channel portable unit for vibration data collection, processing and storing

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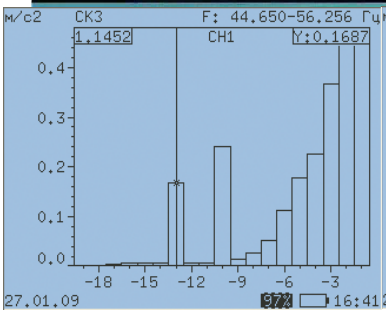
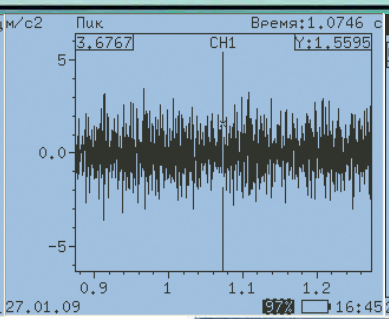
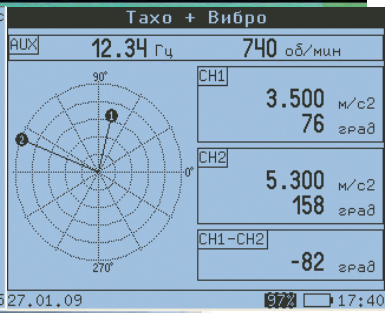
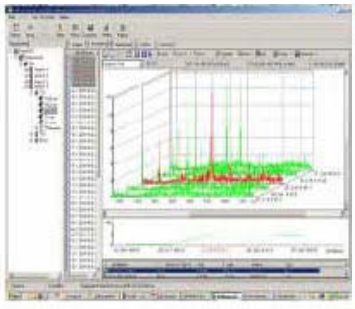
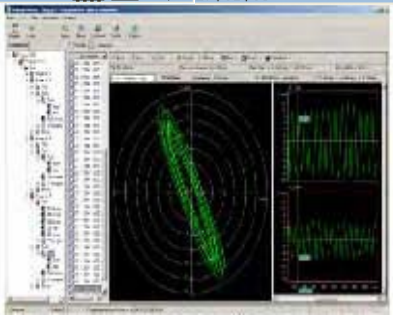










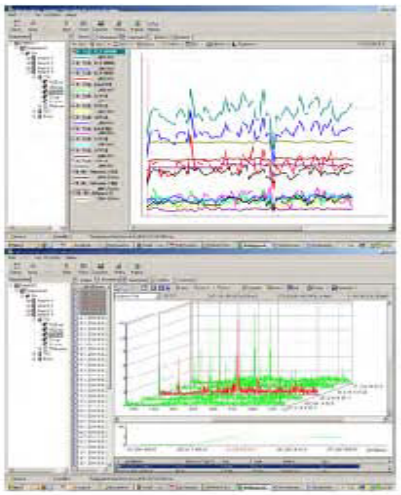
VibroDesigner-Standard provides many features for displaying and analyzing scalar and vector data such as:

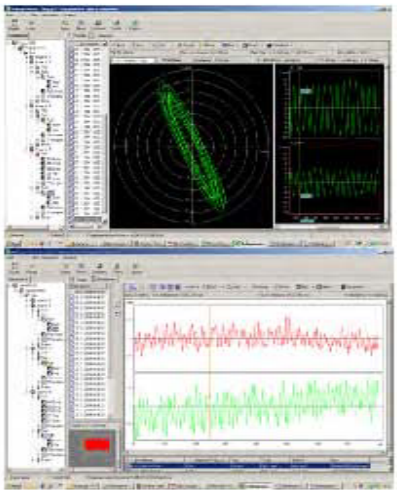
- Waveforms.
- Envelopes.
- Spectra.
- Envelope spectra.
- Cepstra.
- Coast-downs.
- Nyquist diagram.
- Trends.
- Orbits.

Options

More than one database can be created. The user may work with various databases, choosing the one of interest.

The software supports a multi-users access mode. Multiple users may logon to a common database that resides on one of the computers on the network.





licence Type	Functional capability
Level 1 (if you don't need to analyze data yourself)	• Creating, configuring and correction of database (including import/export of the database) • creating of plant structure • Support all Technekon units. • Creating of routes • Downloading data to the PC • Trends • Reports.
Level 2 (if you need to analyze data yourself)	Level 1 plus: • Spectrum and waveform analysis • Waveform, integration and differentiation of waveform • Filtration • Spectrum, waterfall spectrum with/without profile, various averaging • Envelope, envelope spectrum • Harmonic cursor, labels, assigning and modifying fundamental frequencies, bands parameters • Import of waveforms, spectrums and other graphs to .csv, .bmp and .xls files.
Level 3	Level 2 plus: • Analysis of orbits • Analysis of Nyquist diagram • Comparison sub mode.