

STD-510

Vibration Data Collector

- **EXTERNAL SENSOR FOR HIGH ACCURACY**
- **BROAD-BAND MEASUREMENTS**
- **STROBOSCOPE CONNECTION**
- **UP TO 8 HOURS BATTERY LIFE**

STD-510 Data Collector is used for monitoring and analysis of rotary machine conditions. Thanks to pocket size and light weight, functional and easy-to-operate design, STD-510 is an ideal tool for daily vibration monitoring of industrial equipment.



HIGHLIGHTS

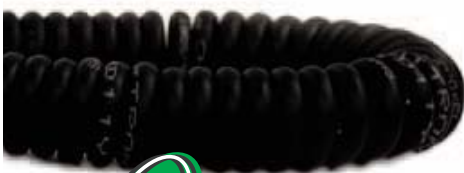
- Using external sensor with magnetic holder enables you to collect broad-band data more accurately and reliable
- Data acquisition and storage: up to 500 waveforms
- USB port to transfer data to computer, upload routes and download data for in-depth analysis with the Vibrodesigner Analysis Software
- On-site FFT analysis
- Stroboscope connection to estimate shaft speed and phase of fundamental frequency

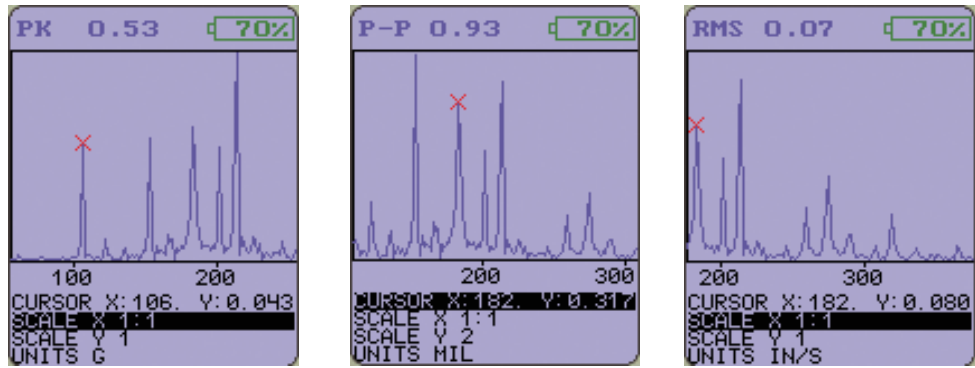
RELIABLE DATA: ESSENTIAL PREREQUISITES FOR ANALYSIS

Collecting and storing up to 500 signals (8192 samples each) in trouble-proof 8 MB permanent memory

INTRINSICALLY SAFE

1ExibIIBT4





ON-SITE ANALYSIS

- Cursor and coordinates
- In-band values
- Various measurement modes
- Zooming

EXTRA FEATURES

Route and off-route data acquisition

Automatic shutdown significantly increases battery life

Channel overload indication

Color display with backlight

Various sensor mounting :

- Tip
- Magnetic holder
- Stud pin

STD-510 + STROBOSCOPE

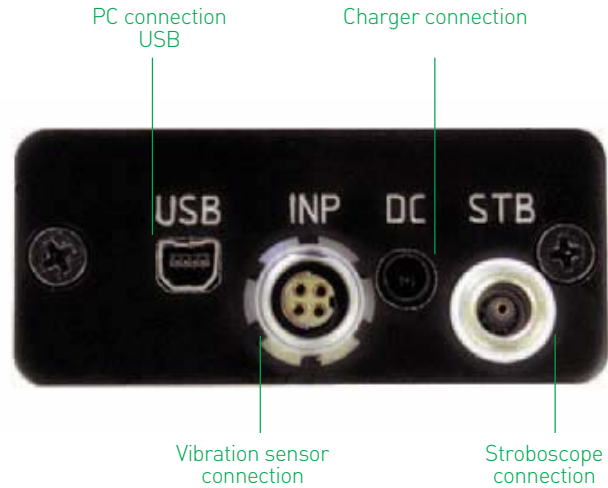
Using a stroboscope allows you to:

- Estimate shaft speed
- Measure vibration value and phase at first rotational frequency
- Analyze conditions of exposed parts of a rotor
- Balance rotors



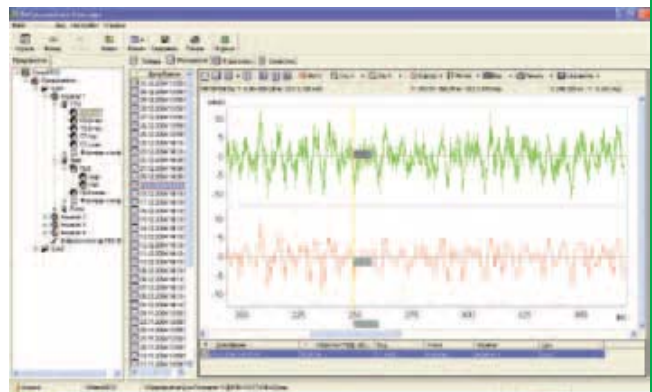
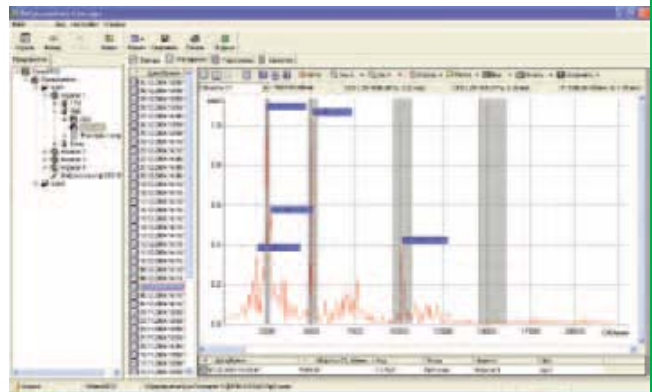
DELIVERY SET

A convenient carrying shake-proof case



COMPREHENSIVE DIAGNOSTICS

Fully compatible with the Vibrodesigner Analysis Software it gives in-depth analysis and reporting functions to prevent catastrophic machine failure, unplanned production downtime and optimization of shop maintenance.



MEASUREMENT

Number of channels	1
Sensor	piezoelectric accelerometer VP-9
Measurement units	Acceleration Velocity Displacement
Measured parameters	Peak-to-Peak, Peak, RMS
Frequency range	5-5000 Hz
Measurement range	0,5 to 70 mm/s (0,02 to 2,76 in/s) RMS
Internal FFT	3200 lines
Sampling	8192
Inherent noise	0,2 mm/s
Bandpass flatness	1 dB
Sensor mounting	Magnetic holder, Probe tip, Stud pin
Compatibility	Stroboscope
Units	Metric and English

MEMORY

8 MB, up to 500 waveforms

DISPLAY

Type	graphic, color LCD, with backlight
Size	160x120 px, 38x30 mm

PC CONNECTION

USB

POWER SUPPLY

Type	NiMH, rechargeable
Operating during	up to 8 hours
Charging during	up to 4 hours
Automatic shutdown	yes

ENVIRONMENT

Intrinsically safe	1ExibIIBT4X
Case protection	IP54
Temperature	-20 ... +50 C
Humidity	up to 90%

SIZE

105x55x27 mm
(4,1x2,15x1,06 in)

WEIGHT

0,240 kg. (8,5 oz)

