

Specification and Price

Vibration data collector

STD-510

version 2.2

Technekon – Equity Serviced & Solutions

Phones: +00(66) 086 325 2004

Email: sukhontaros@esspower.com

www.technekon.com

www.esspower.com



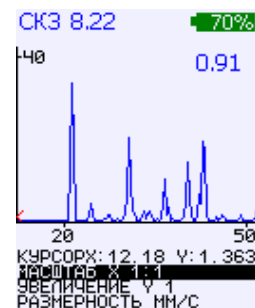
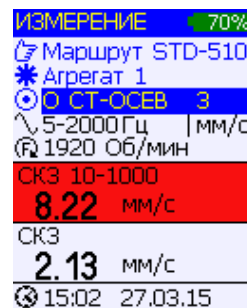
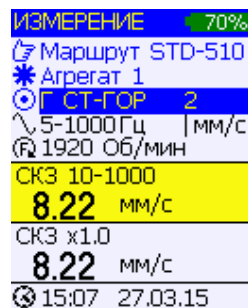
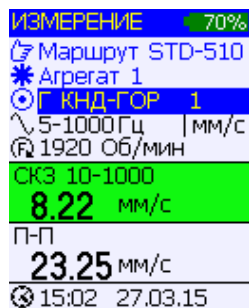
Equity Services & Solutions Co., Ltd
267/96-97 Sukhumvit Rd. Maptaphut
Mueng-rayong Rayong 21150
Tel : 0 3860 9200 Fax : 0 3860 9201
Tel : 0 2998 7308 Fax : 0 2998 7309
Email : esscompany@esspower.com
manorom@esspower.com

1.0 General Description

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
- Can be connected to on-line condition monitoring systems*
- 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
- Tachometer connection to estimate phase of fundamental frequency
- Collecting and storing up to 500 waveforms in trouble-proof 8 MB permanent memory
- Sampling - 8192
- 1ExibIIBT4
- Automatic shutdown significantly increases battery life



2.0 Specification

Vibration Collector

Channels:	1 – analog, 1 – tacho
Type of sensor:	IEPE (ICP)
Type of tacho:	Optical, laser, proximity switch
Type of signal:	Waveform, enveloping
Measurement units:	Acceleration, velocity, displacement,
Measurement parameters:	RMS, Peak, Peak-Peak, Crest factor
Connection to on-line monitoring systems:	Yes
Frequency range (± 1 dB):	2 – 20000 Hz
FFT resolution:	3200 lines
Waveform:	8192 samples
Memory capacity:	8 MB – 500 waveforms
Display:	160x120 pixels
	38x30 mm
Sensor mounting:	Magnetic holder, Probe tip, Stud pin
ADC:	24 bit
Accuracy:	1%
Operating temperature:	-20 ... +50°C
Humidity:	90% (+35°C)
Size:	110 mm x 55 mm x 24 mm
Weight:	250 gms
Power Supply:	Ni-MH, chargeable in device
Battery Life:	Up to 8 hours
Explosion proof:	1ExibIIBT4

Options

Software:	Vibrodesigner-Expert: Type 1, Type 2
-----------	---

3.0 Prices

Complete vibration data collector STD-510 with ICP vibration sensor, magnetic and tip probe, charger, USB cable, operating manual and carrying case.

STD-510:

Price.....170 000.....Baht (CIF price)

STD-510.1:

STD-510 and Vibrodesigner-Expert level 1

Price180 000....Baht (CIF price)

STD-510.2:

STD-510 and Vibrodesigner-Expert level 2

Price215 000 ... Baht (CIF price)

4.0 Terms & Conditions

Training :

- Customer has to come to our training center-Rayong or our branch Lamluka or NSTDA(สวทช)
- We also provide free download self-training video that explaining step by step.
- We also provide remote access to assist customer anywhere via teamviewer.

Aftersales service :

- We offer loaner unit during repair or during calibration
- We provide calibration to all vibration brand
- We have vibration training class every three(3) months interval for the whole year

Warranty:

12 month from the date of shipment. Warranty limited to replacement of defective parts.

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

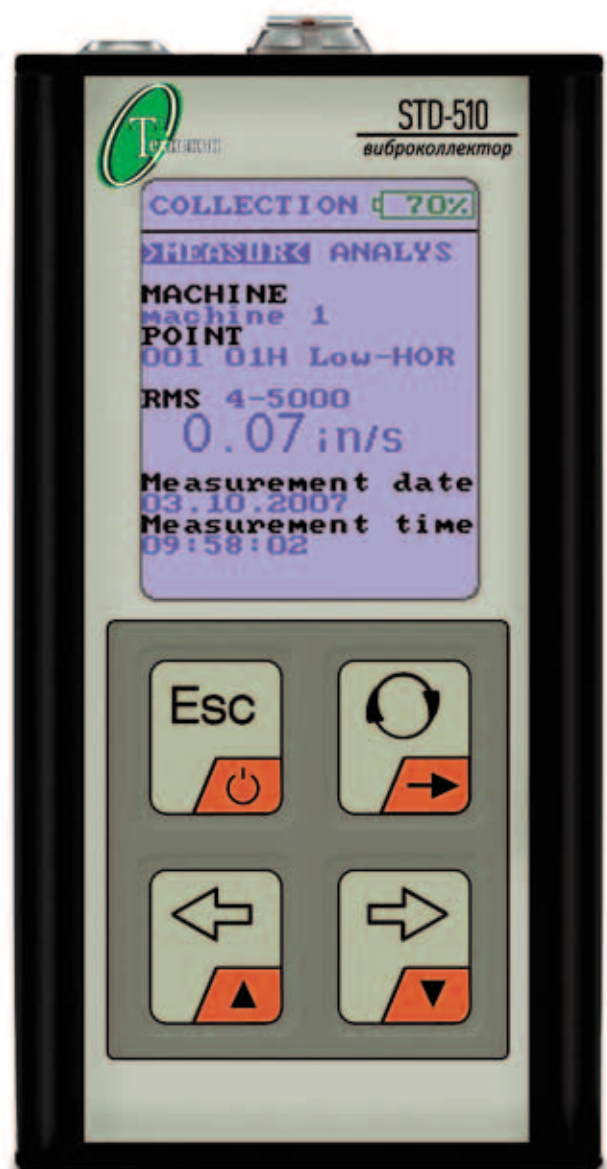
- Using external sensor with magnetic holder enables you to collect broad-band data more accurately and reliable
- Data acquisition and storage: up to 500 waveforms
- USB port to transfer data to computer, upload routes and download data for in-depth analysis with the Vibrodesigner Analysis Software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

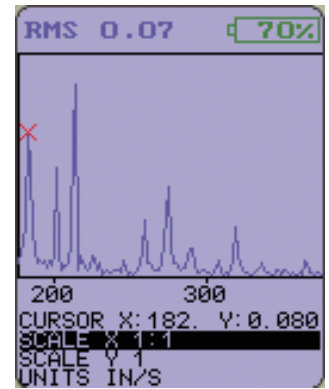
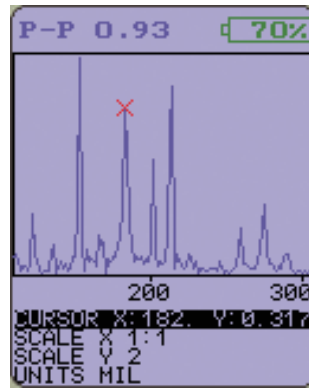
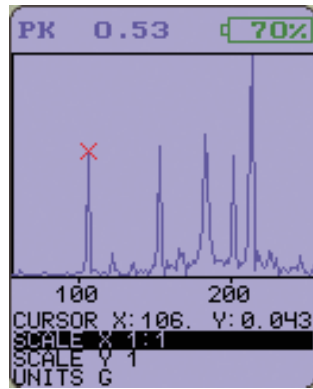
RELIABLE DATA: ESSENTIAL PREREQUISITES FOR ANALYSIS

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

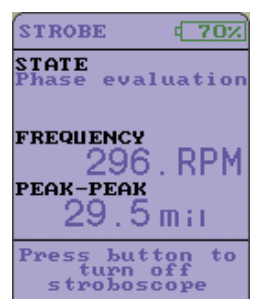
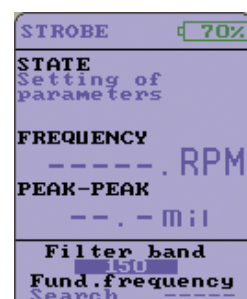
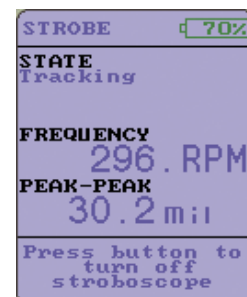
Various sensor mounting :

- Tip
- Magnetic holder
- Stud pin

STD-510 + STROBOSCOPE

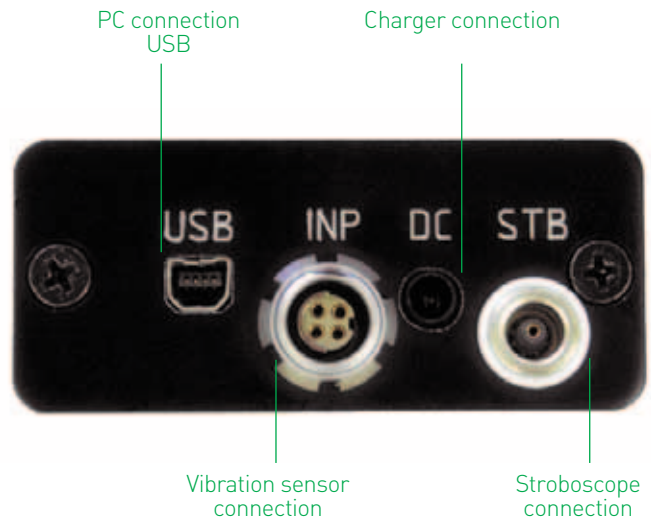
Using a stroboscope allows you to:

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



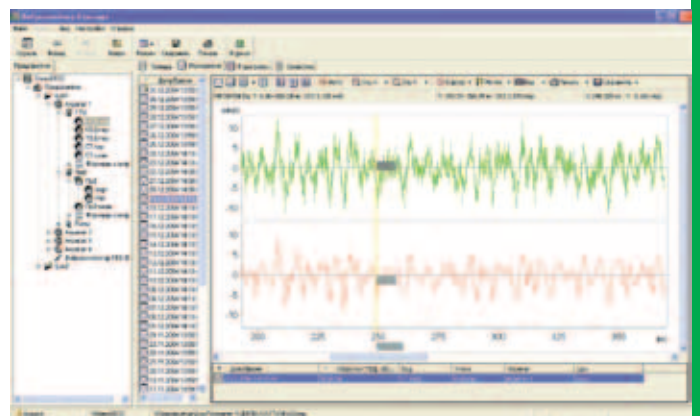
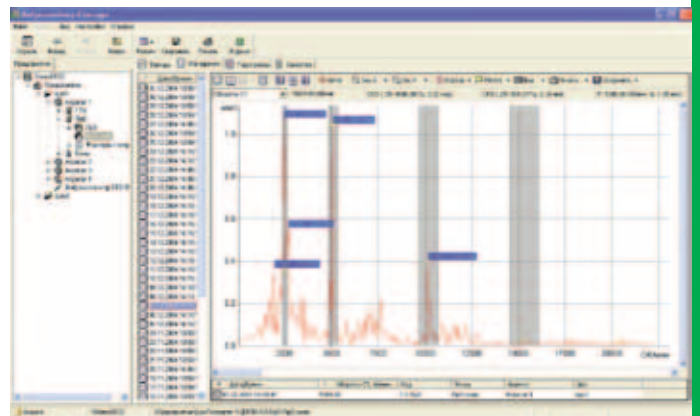
DELIVERY SET

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)

