Vibration Analyzer ADL MS30L

ADL MS30L is a vibration measurement and analysis instrument manufactured by Adelix. It carries out measurements on 1 channel, allows you to determine the main parameters of vibration, such as amplitude, frequency and speed, as well as diagnose the state of mechanisms and equipment based on the received data.

The ADL MS30L is compact and easy to use, making it convenient for various industries including manufacturing, scientific and research work, as well as equipment maintenance and repair.

The built-in software of the vibrometer allows for easy and reliable use, making it simple to manage data and generate reports.

Using the vibrometer enables quick vibration measurements without the need for prior preparation.

Vibration values measured after a certain period of time, for example, a month, allow you to predict the increase in vibration and plan the timing of subsequent repairs, which can help save money compared to scheduled repairs.

The vibration value measured by the vibration analyzer can be used to diagnose unit defects using signal spectrum analysis. With the help of key and defective lines on the spectrum, it is possible to determine the condition of bearings, imbalance, misalignment and other defects.

The ADL MS series devices are widely used for real-time monitoring of mechanical condition during operation, diagnostics, maintenance, and repair of equipment of various types, including bearings, gears, turbines, generators, fans, pumps, rotors, distribution installations, ball mills, rolling mills, gearboxes, conveyors, engines, blowers, and others. These devices can be used to monitor both individual components and entire structures. They are used in various industries, such as metallurgy, mechanical engineering, petrochemical, light and defense industries, thermal and nuclear power engineering, maintenance of agricultural equipment, housing and utilities, and transportation.

ADL MS series instruments are a reliable and effective tool for monitoring and diagnosing equipment in various industries and infrastructures.

Features and functions of the device:

- Measurement of vibration velocity, vibration displacement and vibration acceleration: This device is capable of measuring all three vibration parameters, which allows for a comprehensive analysis of the condition of mechanisms and equipment.
- Vibration spectrum analysis (fast Fourier transform): This analysis allows you to determine the frequency content of the vibration signal, which allows you to identify deviations from the norm and make decisions about the need to repair or replace mechanisms.
- Time analysis of the signal: this analysis allows you to determine the nature of the vibration and its rate of change over time.
- Displaying RMS and peak values of vibration: The device can display information on the RMS and peak values of vibration, which allows understanding the level of vibration and monitoring its changes in real-time.

- Possibility of obtaining vibration change trends using specialized software: The device comes with software that allows tracking the dynamics of vibration changes and building graphs showing the dependency of parameters over time.
- Built-in battery: The device has a built-in battery that allows you to use it autonomously for a certain time, regardless of the power source
- Easy and Intuitive Operation: The operation of the instrument is easy and intuitive, allowing the operator to operate the instrument quickly and efficiently.
- Dust and moisture protection of the keyboard, display and connectors: The keyboard, display and connectors of the device are dust and moisture resistant, which allows the device to be used in high humidity conditions and provides protection against accidental dust ingress. This allows you to keep the device in good condition and increases its efficiency and duration. Also, when operating the device in conditions with high humidity, dust - moisture protection is an important feature that ensures safe and accurate operation of the device.

The introduction of the ADL series vibration meters at enterprises will allow:

- significantly increase the reliability and service life of equipment,

- eliminate the risk of emergencies and ensure the continuous operation of the enterprise,

- timely detect and eliminate the increased level of vibration,

- increase profits by reducing the cost of unforeseen repairs and downtime.

TECHNICAL SPECIFICATIONS

Parameter	Values
ADL MS30	
Number of vibration channels	1
Speed sensor channels	-
Measure temperature	-
Frequency range	1…10000 Hz
Vibration acceleration measurement range	up to 200 m/s^2
Vibration velocity measurement range	up to 200 mm/s
Displacement measurement range (peak-to-peak)	up to 2000 μm
Accuracy	up to 5%
Possibility of balancing	-
Temperature measuring range	-
Speed measuring range	-
FFT spectral analysis	400, 800, 1600 lines in the spectrum
Memory	4 GB
PC connection and charging	USB
Display	color, 128x160 pixels
Battery	Built-in, LiPol
Terms of Use	from 0°C to 50°C humidity up to 80%
Overall dimensions	132 x 70 x 33mm
Weight	150

DELIVERY SET

№	Name	Qty.
1	ADL MS display unit	1

2	Accelerometer (vibration probe)	1
3	Cable 1.5m to a vibration probe	1
4	A Magnet for mounting the vibration sensor	1
6	AC USB charger	1
7	USB cable	1
8	USB flash drive with software (or installed in the built-in memory of the device)	1
9	Manual	1
10	Protective case	1
11	Carrying and storage bag	1