TURKEY
ADELIX

# PORTABLE VIBRATION METER ADL M15

**Reliable:** the latest components and technical solutions are applied. Measurement accuracy is provided by a high-quality sensor and a powerful processor.

**Functional:** allows to measure vibration in 5 modes and ensure maximum efficiency of industrial equipment.

made in TURKEY


5 OPERATE DIFFERENT MODES

1. CLASSIC VIBROMETER
2. VIBRATION ANALYZER
3. ACCELERATION-COAST MODE
4. MONITORING MODE
5. LINEMAN ASSISTANT

IP54 RATED
LI-POL
RTC

ADL series

# Portable vibration meter ADL M15

The portable vibration meter ADL M15 is a multifunctional measuring device designed to measure vibration in 3 parameters: vibration velocity, vibration acceleration, and vibration displacement. It also diagnoses rolling bearing condition using the peak factor and determines the spectral composition of the vibration signal with specialized software. This device is a unique diagnostic tool for vibration monitoring. It features a user-friendly portable sensor with Bluetooth function that connects to applications on tablets and smartphones. Data can be viewed in real-time.

## The distinguishing feature and uniqueness of the ADL M15 vibration meter is its ability to operate in 5 different modes:

The **classic vibrometer** is a mode that involves the traditional use of the device as an indicator of the overall vibration level, measurement of peak values, displacement, or diagnosis of rolling bearings using peak factor.

The **vibration analyzer** mode allows for all functions of the 'classic vibration meter' mode with the ability to present the vibration spectrum and save data to professional software.

The **"Acceleration-coast"** mode allows recording data from the moment rotational speed begins to increase until the working speed is reached, as well as from the moment rotational speed decreases until the equipment comes to a complete stop. Then it allows building a trend of the dependence of vibration amplitude on time. The main purpose of this diagnostic is to avoid equipment damage when changing rotational speed and passing critical frequencies of the shaft line.

The **monitoring mode** allows the vibrometer to be set up for measuring vibration and recording vibration parameters at specific intervals of time, for example, hourly, daily, or weekly. This mode allows for a comprehensive vibration survey and monitoring of any industrial equipment.

The **Lineman Assistant** is a mode of operation for the service personnel along a specified route, with a large number of objects and control points, allowing for the use of both NFC tags and sequential standard recording of vibration data. This mode significantly facilitates monitoring of all equipment at the enterprise and enables the construction of an efficient and convenient route for planned inspections.

## The main advantages of the portable ADL M15 vibrometer are:

- miniature design with magnetic mounting and the ability to mount on an M5 stud, which completely eliminates the influence of human factors on the measurement process;
- the ability to set parameters: time, frequency, and polling frequency;
- high degree of protection against shocks and drops;
- built-in battery;
- fast data transfer via USB or Bluetooth;
- event logger regardless of connection to external devices
- real-time clock
- NFC module;
- built-in flash memory for storing a large amount of data;
- built-in display with the ability to indicate vibration parameters exceeding the set limit in color;
- ability to transmit data to a global system;
- storage of emergency values;
- measurement resolution up to 0.01;
- bright OLED display;
- ease of use and convenience.

## Specifications:

| PARAMETER | VALUE | PARAMETER | VALUE |
|---|---|---|---|
| RMS value of vibration velocity | 0,01—200 mm/s | Power supply | Li-Pol battery, 3.7 V; 370 mAh |
| Peak value of vibration acceleration | 0,1—200 m/s$^2$ | Battery run time | up to 8 hours |
| The scope of vibration displacement | 2—2000 µm | Battery Charging Connector | USB, type C – 5 B 0.5 A |
| Possibility to evaluate outliers in the vibration signal | Yes | Charging time, h | 2,5 |
| The possibility of estimating the spectral composition of the vibration velocity signal | Yes (with the help of specialized software) | Operating temperature range | -10 to +55° C |
| Frequency range | 10-1000Hz±5% | Humidity, % | 85 |
| Dust and moisture protection class | IP 54 | Overall dimensions (with magnetic fastening), mm | 30x28x90 |
| | | Weight, g | 70 |

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