



TURKEY

ADELIX

# VIBRATION ANALYZERS WITH BALANCING FUNCTION ADL-MS5 SERIES

ADL-MS52 and ADL-MS54 are compact devices with a wide range of functions for expert diagnosis of the vibration condition and identification of the reasons for the non-stationary operation of equipment.

In the ADL-MS52PRO and ADL-MS54PRO models, the possibility of precise, simple, and fast laser shaft alignment is implemented.

The specialized model ADL-MS52A has only the laser shaft alignment function.



ADL  
SERIES

## Vibration Analyzers with Balancing Function ADL-MS5 Series

Vibration analyzers are designed for measuring overall vibration parameters, analyzing the spectrum of rotating equipment vibration, providing prompt assessments according to international standards, monitoring equipment conditions, conducting measurements, and collecting data for further diagnosis and tuning of various industrial equipment.

### Model range:

**ADL-MS52** – 2-channel analyzer, balancer

**ADL-MS54** – 4-channel analyzer, balancer

**ADL-MS52A** – specialized aligner without balancing and vibration analysis functions

**ADL-MS52 PRO** – 2-channel analyzer, balancer, aligner

**ADL-MS54 PRO** – 4-channel analyzer, balancer, aligner

### Features of the analyzers:

- 2 or 4 channels for measuring and assessing vibration spectrum;
- Classic reliable piezoelectric accelerometers;
- Wide frequency range for quality and professional diagnostics;
- Balancing function - up to 8 correction planes;
- Report generation;
- Flash drive for storing measurements and reports;
- USB interface for connection to a computer;
- Energy-efficient battery;
- Software for archiving measurements and report generation;
- Intuitive interface and bright display.

### Features of the laser alignment system for ADL-MS52A, ADL-MS52PRO, ADL-MS54PRO devices:

- Simple and accurate shaft alignment;
- Distance of up to 10 m between alignment sensors on the equipment;
- Shaft diameter range from 20 to 250 mm with supplied chains;
- Ultra-lightweight wireless laser sensors with built-in Bluetooth for conducting alignment;
- Wide range of functions, including horizontal and vertical machine alignment and shim simulation.

### Main application areas of the devices:

The primary application of the devices is the real-time monitoring of the mechanical condition and equipment diagnostics during maintenance and repairs, including bearings, gear transmissions, turbines, generators, fans, pumps, distribution units, ball mills, rolling mills, reducers, conveyors, and other equipment. ADL-MS vibration analyzers are designed for monitoring both entire structures and individual components.

ADL-MS series vibration analyzers find applications in metallurgy, engineering, petrochemical, as well as light and defense industries, thermal and nuclear energy, servicing agricultural complexes, municipal services, and transportation.

The Adelix service center provides warranty and post-warranty maintenance for devices throughout the entire period of operation.

### Specifications

Parameter	ADL-MS52, ADL-MS52PRO	ADL-MS54, ADL-MS54PRO	ADL-MS52A
Channel inputs	2	4	-
Frequency range	1... 25000Hz		-
<b>Vibration measurement range:</b>			-
-vibration acceleration	up to 200 m/s <sup>2</sup>		-
-vibration speed	up to 200 mm/s		-
- vibration displacement	up to 2000 uM		-
Speed measuring range	10...200000 rpm		-
FFT Spectrum Resolution	100, 200, 400, 800, 1600, 3200, 6400, 12800, 25600, 51200, 102400 hat		-
Balancing	up to 8 correction planes, up to 16 measurement points		-
Accuracy	5% lines		-

### Global parameters

Memory	8 GB
PC interface	USB
Display	Color VGA
Battery	Li-Po rechargeable, 8 hours of continuous use
Dimensions	220 x 102 x 40 mm
Measuring block weight	470 g

### LASER ALIGNMENT SYSTEM, ADL-MS52A, ADL-MS52PRO, ADL-MS54PRO

Shaft diameter range	20 to 250 mm (0.8 to 10 in.) diameter with supplied chains	Distance between measuring units	Maximum: 10 m Minimum: 70 mm
Type of laser	diode laser	Connections	Integrated wireless communication Class 1 (up to 100m)
Laser wave length	650 - 675 nm	Dimensions	91 x 57 x 42 mm
Laser safety class	2	Weight	125 gram
Maximum laser power	1 mW	Battery	Li-Po rechargeable battery
Electronic inclinometer	Accuracy ±0.1°		