



SOLUTIONS FOR MINING NOISE AND VIBRATION MONITORING

NOISE DOSIMETERS, HUMAN VIBRATION METERS, AND
SOUND LEVEL METERS

 **LARSON DAVIS**
A PCB DIVISION

larsondavis.com | 1 716 926 8243

WORKER SAFETY

PERSONAL NOISE EXPOSURE MONITORING

In the mining industry, noise exposure is prevalent in all areas of the operation: surface, processing plants, and underground. Employers have a responsibility to protect workers from noise induced hearing loss caused by occupational noise. In many cases it is also required to self-monitor employee exposure to noise. To help assess risk and validate the effectiveness of hearing protection programs, Larson Davis offers Noise Dosimeters designed to help you comply with guidelines established by MSHA, OSHA, and other global directives. The Larson Davis Spartan™ Series Noise Dosimeters provide exposure levels in an easy-to-understand format.

SPARTAN™ INTRINSICALLY SAFE NOISE DOSIMETERS

MODEL 730IS

- Easily measure personal noise dose for compliance to OSHA, MSHA 30 CFR 62.100, ACGIH, ISO 9612, and EU Directive 2003/10/EC
- Experience full control, live monitoring, and easy report generation and sharing with LD Atlas™ mobile app
- Understand results with percent dose display and programmable LED alert and alarm
- Have confidence in the integrity of data with automatic bump and motion detection and optional sound recording
- Optional 1/1 octave band data available

PERSONAL VIBRATION EXPOSURE MONITORING

Exposure to vibration in the mining industry is common due to the tools and plant machinery used. Workers who experience vibration regularly can suffer from fatigue and risk of injury. Hand-arm vibration syndrome (HAVS), also known as white-finger syndrome, and carpal tunnel syndrome are common vibration-related injuries. In addition, vibration can affect nerves, blood vessels, muscles, and joints.

HUMAN VIBRATION METER

MODEL HVM200

- Easily measure hand-arm and whole body vibration levels for compliance to worldwide standards and directives, such as ISO, ACGIH Threshold Limit Values, and 2002/44/EC
- Understand results with built-in weightings and standards
- Set up measurements, view data, and create reports from PC-based software or mobile app



SPARTAN-IS SAFETY RATINGS/MARKINGS:

Model 730IS
PERMISSIBLE Noise Dosimeter
TESTED FOR INTRINSIC SAFETY IN METHANE-AIR MIXTURES ONLY

MSHA APPROVAL NO. 18-A210001-0

ATEX/IECEX
II 1G Ex ia IIC T165 °C Ga ITS20ATEX205538X
I 1M Ex ia I Ma -10 °C ≤ TAMB ≤ +50 °C
IECEX ETL 19.0045X

ETL **CAN/USA**
Class I, Zone 0, AEx ia IIC Groups A, B, C & D,
T165 °C T165 °C
Intertek Class I, Division 1, -10 °C ≤ TAMB ≤ +50 °C



NOISE MONITORING METERS AND SYSTEMS

Mining operations are often required to implement a noise management system to meet environmental impact standards. Larson Davis Noise Monitoring Systems are ideal for noise surveys and long-term noise monitoring needed to meet these standards.

From handheld meters to systems for long-term deployment, each option allows you to own your data – no subscription is needed.

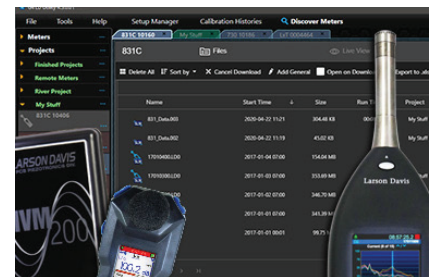
- Evaluate compliance to standards, ordinances, and regulations
- Evaluate noise mitigation efforts
- Receive alerts when noise exceeds allowable levels
- Publish noise levels to proactively manage community noise perception



SOFTWARE AND APPS TO SIMPLIFY MEASUREMENTS

Simplify meter and measurement management with LD G4 Utility software for PC and the LD Atlas™ mobile app for iOS or Android. With G4 on PC, connect, control, download, and view data from multiple devices simultaneously. Then, view data, generate reports, and easily export via Excel® for further data analysis. Install LD Atlas on a phone or tablet to easily check meter status, make setup changes for a new measurement, analyze data, listen to recorded audio files, and even create and share PDF reports.

- Manage all LD devices for your operation from a single place
- Create and store device setups
- Push setup to multiple meters at once
- View live data
- Visualize data with graphing features
- Create shareable reports with a few simple clicks



MINING MONITORING EQUIPMENT RENTAL PROGRAM

Need Noise Dosimeters, Human Vibration Meters, or Noise Monitoring Systems for short-term monitoring?

The Modal Shop, our sister company, offers a Rental Program that is an ideal way to access state-of-the-art Larson Davis technology at a fraction of the cost. Contact our team of experts, tell us about your testing needs, and we'll help you determine the best rental plan for your needs: rentalteam@modalshop.com or 1 513 351 9919.





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