



ACOUSTIC INSTRUMENTATION

Larson Davis, Inc. is a world leader in the design, manufacture and distribution for complete line of precision instrumentation for the measurement and analysis of acoustic and vibration systems. As a member of the PCB Group of companies, Larson Davis combines its knowledge and engineering of acoustic products with PCB's vast manufacturing capabilities to offer a broader range of world class acoustic and vibration analysis products.

The acoustics and vibration products are focused on precision measurement instruments for use in a variety of industries. These products combine very sophisticated environmental data collection systems with high-speed data acquisition and processing systems to give users critical information concerning acoustical or vibration based events. The products include Sound level meters, analyzers, microphones, noise dosimeters, digital sensing system and acoustic test systems which have been designed for the detection, measurement and control of noise and vibration.

Structural Solutions Private Limited exclusively represents **Larson Davis inc.**, In India. **Structural Solutions Private Limited** is a professional engineering company engaged in offering high end technology intensive products and system solutions to Indian industry for Acoustic & Vibration Measurement, Analysis and Calibration



SOUND LEVEL METERS

SYSTEM 824

The system 824 combines the features of a precision sound level meter and of a frequency analyzer. It can be configured to take on the features of several particular instruments.

Features:

- ANSI/IEC type 1 sound level meter
- Virtual instrument capabilities (Model 824S as ISM, Model 824L as ISM & LOG & 824 RTA For Building Acoustic Applications)
- Provision to connect Accelerometer for Vibration Measurements
- Peak level dB: 160
- 1/1 and 1/3 octave analysis
- 2MB of efficient data memory
- Windows based software for setup, control and high speed data exchange
- Light-weight, easy to use, easy to hold
- Direct printout of stored data
- Power source : Rechargeable NiMH battery
- RS-422 serial interface



System 824

SPARKS 700 SERIES

These incredibly rugged, micro-sized Sparks 700 Series of Noise Dosimeters are the perfect choice for personal noise exposure sampling in the most extreme and hostile industrial environments.

Features:

- Universal noise exposure measurements using your choice of multiple dose Parameters
- Compact, lightweight and easy to use
- Incredible battery life
- All models intrinsically safe
- High speed data transfer without a cable
- Delivers outstanding reports and analysis through Blaze software
- Massive memory allows more than a week of sampling on all three shifts
- Data cable microphone and pre amplifier

Model 703



Model 704



Model 706



SOUND TRACK LxT

The SoundTrack LxT sound level meter is a perfect tool for gathering, analyzing and presenting detailed noise environment data quickly, easily and concisely.

Features:

- Simple operation
- Intrinsically safe
- Extremely rugged
- 20 hours runtime on 4AA alkaline batteries
- Large, bright, high contrast LCD screen
- Digital voice annotation
- Task mate noise survey guidance system
- Real time octave band frequency data available
- Provision to connect Accelerometer for Vibration Measurements
- Conforms to ANSIS1.4, IEC Standards

SOUND TRACK LxT



MODEL 831

Model 831 is the newest Sound Level Meter from Larson Davis with capabilities not found in other meters. The rugged, ergonomic design is ideal for one-handed operation, right or left.

Features:

- ANSI S1.4 type 1/IEC 61672 class 1 integrating SLM
- Measurement range : 20 - 140 dB SPL
- Data memory : 120 MB (expandable up to 2GB)
- Real Time 1/1 and 1/3 Octave Analysis
- LCD display with Elastomeric illuminated keypad with "Quiet Touch" tactile action
- Detectors: linear, slow, fast, impulse, peak
- Frequency weighting: A, C, Z
- Voice annotation recording with playback, from headset or measurement microphone
- Exceedance Based Logging
- Utility software for setup, control and high speed data download, application software available Power Source : 4 AA batteries (up to 16 hours of battery life)
- USB 2.0 peripheral full-speed port
- Field-upgradeable firmware



MICROPHONES

Microphones and Sound intensity probes are used for a wide range of applications including sound power testing, engine noise analysis, outdoor noise monitoring, squeak & rattle testing, acoustic chamber testing, building noise studies, sound qualification, Noise mapping and environmental noise measurement.

Features:

- Rugged design
- Exceptional performance in high humidity
- Conform to IEC 60651 Type 1 and ANSI S1-4 standards
- Sizes available 1/4, 1/2, 1 inch
- Types :Free- Field, Random incidence, Pressure, Array, Probe-style
- Sensitivity : 1.6-50.7 mV/pa
- Frequency response: 2.6kHz - 80kHz



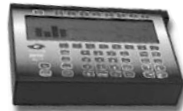
ANALYSERS

ViRTé 3000+

The ViRTé 3000+ is a portable, small, lightweight instrument that functions as both a dual-channel real time spectrum analyzer and a precision sound level meter.

Features:

- Dual channel frequency analyzer 1/1 or 1/3 octave filters (0.8Hz to 20 kHz)
- Dual channel Digital SLM ANSI/IEC type 1 accuracy
- Sound intensity and sound power with optional Model 2260 Probe
- Transient Event Measurements
- Provision to connect Accelerometer for Vibration Measurements
- Architectural Acoustics
- Structural Testing and Modal Analysis
- Order tracking & Pass by analysis
- Large memory 4 MB
- RS 232 and high speed parallel interfaces
- Direct printout of stored data
- DNA (Data, Navigation and Analysis) software available
- Acoustic Absorption coefficient measurements through Impedance Tube



ViRTé 3000+

SPECIAL PURPOSE INSTRUMENTS

HUMAN VIBRATION METER

The HVM100 provides convenient way to collect and analyze data for assessing Hand-arm and Wholebody vibration exposure.

Features:

- Compact, lightweight and portable
- Supports ICP and Charge Mode accelerometers
- Complete system with analysis software available
- Employs digital filtering Techniques
- Measures to ISO 2631 and 5349 requirements
- Easy user interface and bold displays
- Simultaneous 3-channel measurements X, Y, Z axes .
- Upgradable Firmware



HVM100

SQUEAK AND RATTLE EVALUATOR

The SRE is a laptop based system designed to be used by the factory personnel to make accurate measurements of squeak and rattle without specialized acoustic training.

Features:

- Advanced time-varying loudness technology
- Measures N10 and dB level
- Statistical summary to Excel Workbook
- Permits to make measurements on a continuous basis



SRE

DIGITAL SENSING SYSTEM (DSS)

The Digital Sensing system is a revolutionary multi-channel, multi-drop, high speed data acquisition system optimized for acoustic and structural dynamic measurements using both DSIT digital and conventional analog technologies.

Features:

- Multiple channels (2 to 64 channels)
- Multi-drop data acquisition
- Revolutionary DSIT technology
- 24-bit data sampling
- Sampling rate to 61.44 kHz
- Data sampling is Synchronised across all channels
- Real-time 1/1, 1/3 octave analysis
- FFT analysis
- A, C, Z-weighted /fast, slow, impulse, peak, rms
- Communication is implemented via ethernet or an ECP Parallel port .
- 10 DC ADC inputs



Digital Sensing System

CALIBRATORS

RESIDUAL INTENSITY CALIBRATORS

For direct calibration or verification of the accuracy of a sound intensity measurement system, Model CAL291 sound intensity calibrator is used which delivers to the probe microphones the simulated intensities at a specified temperature, atmospheric pressure and nominal microphone separation.

Features:

- Verification of amplitude and phase accuracy
- Applies the same signal with zero phase difference to a pair of 1/2" or 1/4" microphones
- Driven by external signal generators such as SRC20 and ViRT 3000+ Real-time Analyzers
- Amplifier provides signal levels to 127 dB
- Conform to IEC 61043 and ANSI S1.9 standards



CAL 291

ACOUSTIC CALIBRATORS and PISTONPHONE

CAL 150, CAL 200, CAL 250 are precision acoustic calibrators offered by LarsonDavis for microphone calibrators. Model 394A40 piston phone is also available for calibrating microphones.

Features:

- Size (microphones): 1, 1/2 inch
- SPL: 94.0/114 db
- Frequency: 250Hz, 1 kHz
- Standards: ANSI S1.40-1984, IEC 60942



CAL 394A40

CAL 250

CAL 200

Complete range of Acoustic instrument, Microphones, Analysers, Sensing systems & Calibrators will be offered in Rupees or in Foreign Exchange at competitive prices by **Structural Solutions Private Limited**

➡ For further product & application details please contact:

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