

ROOM ACOUSTICS

SOLUTIONS FOR ROOM AND BUILDING ACOUSTICS MEASUREMENTS



larsondavis.com/building-acoustics | 1 716 926 8243

ROOM AND BUILDING ACOUSTICS

Whether for performance venues, architectural measurements, or work-place acoustics, reverberation time is a key parameter for characterizing a room. Reverberation time data provides information about the quality of sound as perceived by the audience in a room. A long reverberation time can make speech less intelligible, and music more pleasing. Too short a reverberation time can muffle speech and make a room sound "thin." The SoundAdvisor™ Sound Level Meter Model 831C-RI with Room Acoustics Firmware 831C-RA offers reverberation time measurement and calculation.

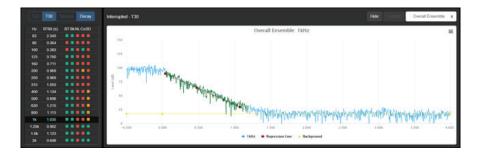
SOUNDADVISOR[™] SOUND LEVEL METER WITH ROOM ACOUSTICS

- Calculates reverberation time (RT60)
- Ensures measurement reliability with ensemble averaging
- Serves as a pink and white noise source
- Supports optional amplifiers and omnidirectional or façade speakers
- Triggers measurements automatically
- Provides 1/1 and 1/3 octave filters for computation of reverberation time
- Offers measurement quality indicators and grading according to ISO standards

SIMPLIFY MEASUREMENTS WITH SOFTWARE SOLUTIONS

Manage measurement setup to results reporting with the powerful G4 LD Utility Software

- View individual decays or ensemble averages
- Identify and exclude questionable decays from final results
- Easily create and share reports

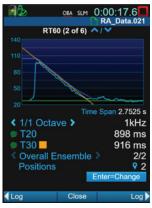


Want to be more mobile? Wirelessly control reverberation time measurements and view real-time results using the LD Atlas[™] app, available for Android[™] and iOS.

UPGRADE OPTIONS

Already own a SoundAdvisor Sound Level Meter or System? Add room acoustic tools to your Sound Level Meter without returning it to the factory by adding Model 831C-RA Firmware.





RT60 Decay Using Impulsive Noise Method



Measurement Quality Indicators

SOUND SOURCES

Larson Davis offers a range of sound sources and accessories for a complete measurement solution.

OMNIDIRECTIONAL SOUND SOURCE

MODEL BAS001

The BAS001 Source is designed to generate omnidirectional sound fields for making standards compliant measurements.

DIRECTIONAL SOUND SOURCE

MODEL BAS003

The Directional Sound Source is designed to generate homogeneous sound fields using random noise.

BUILDING ACOUSTICS SOUND SOURCE AMPLIFIER

MODEL BAS002

When coupled with the BAS001 Omnidirectional Speaker or BAS003 Directional Speaker, the BAS002 Amplifier creates the ideal sound source for making room and building acoustics measurements.

TAPPING MACHINE FOR IMPACT NOISE EXCITATION

MODEL BAS004

The Tapping Machine is used to simulate foot fall noise in a manner that is well controlled and reproducible so that measured results can be replicated and compared with other measurements.

IMPULSIVE NOISE SOURCE

MODEL BAS006

The Clapper is an innovative device used to create impulsive noise that includes low frequency energy and avoids problems like secondary bounce.

EQUIPMENT RENTAL

Need Room Acoustic Measurement Solutions for a one-time test?

The Modal Shop, our sister company, offers a Rental Program that is an ideal way to access state-of-the-art 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 situation: rentalteam@modalshop.com or 1 513 351 9919.











B312-RT Complies with the Following Standards ISO 3382-12009 Acoustics — Measurement of room acoustic parameters — Part 1: Performance spaces ISO 3382-2208 Acoustics — Measurement of room acoustic parameters — Part 1: Performance spaces ISO 3382-2208 Standard Test Method for Determination of Dacay Pates for Use in Sound Insulation Test Methods IEC 6172-12002 Class 1 Electracoustics — Octave-band and fractional-octave-band filters Reveneration Time Impulse excitation using reverse time integration (Schroeder method) Calculation Methods Available Impulse excitation using reverse time integration (Schroeder method) Interrupted Noise Scataban with Internal or External Source Yes T20 and T30 Stope Calculation Least squares estimation 1/1 Octave Band OB/tr to 10 000 Hz 1/2 Octave Band Standard (1/1 or 1/3 octave) and selectable frequency range Programmable Acquisition Time O 10 99 seconds Programmable Acquisition Time 2 to 3 seconds Sampling Time 2 to 3 seconds Reverberation Time Measurement Window 19 s acquisition unidow, with 20 ms sample time Measurement State Ext. hackground, perfinger, rady, fuggerd, done Decay Viewing Ensemble and Individual Positon Ensemble Predefined Setups Av	831C-RT SPECIFICATIONS	
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	Sound Level Meter	
	Requires No Other Software Option	



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