

REVERBERATION TIME

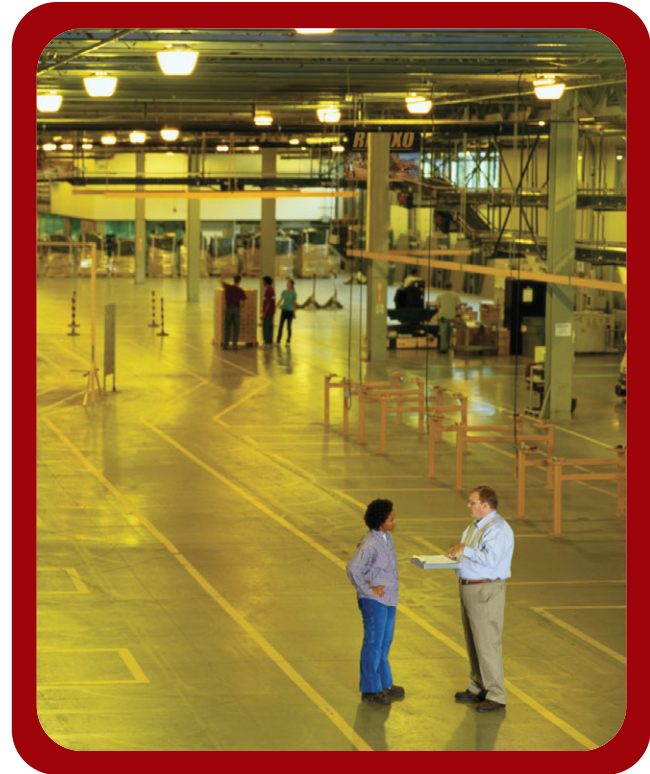
The measurement of Reverberation Time (RT) is of interest to several applications. Examples include:

- Measurement of absorption coefficients in reverberation rooms (ISO 354)
- Calculation of airborne insulation of building elements (ISO 140-3/4)
- Calculation of the equivalent absorption area to determine sound power in reverberation rooms (ISO 3741)

How sound reverberates in a room is fundamental to room acceptance tests and assessment of acoustical comfort. In the case of noise in the workplace, reverberation has a significant effect on the noise levels people are exposed to.

Reverberation Time is measured by using either interrupted sound (a powerful sound source abruptly shut off) or impulsive sound (most often a shot with a starting pistol). It is usually averaged over several positions in the room and over several decays at each position.

PULSE can make fast, automated Reverberation Time measurements using both methods.



TYPE 3560 C-S7

Reverberation Time-Impulse Response (1 In)

3560 C
7533
7771-N2
UA 1365

- Cost-effective and flexible solution for measuring RT using the integrated impulse response method
- Simultaneous acquisition of decay curves for each band of interest
- Lightweight solution suited for on-site architectural acoustic measurements
- PULSE capabilities for editing, reporting and archiving



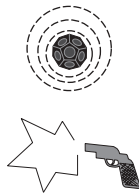
* One year SW maintenance

TYPE 3560 C-S9

Reverberation Time-Impulse Response (4 In)

3560 C
7533
3109
7771-N4

- Both interrupted noise and integrated impulse response methods supported (according to ISO 354, ISO 140-3/-4, ISO 3382)
- Multichannel measurements to speed-up measurement time
- Arithmetic averaging of the reverberation times or ensemble averaging of the decay curves for critical applications
- PULSE noise generator



* One year SW maintenance

4188-A-021
Prepolarized Free- and Diffuse-field
1/2-inch Microphone with 2671, TEDS

4943-L-001 Diffuse-field
1/2-inch Microphone with 2669L, TEDS

UA 0588
Preamplifier Holder

UA 1317
Preamplifier Holder

UA 0801
Lightweight Tripod

4231
Sound Level
Calibrator

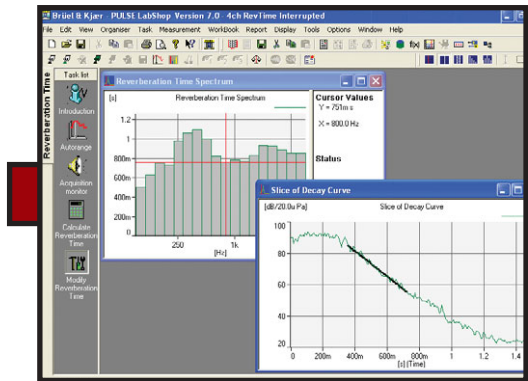
4296
OmniPower

4295
OmniSource

Not supplied
by Brüel & Kjær

KE 0358 Flight Case
2716 Power Amplifier
020227

Automatic calculation of reverberation times consists of detection of the evaluation range and linear regression



IMPULSE RESPONSE METHOD

4188 A-021 Prepolarized Free- and Diffuse-field 1/2-inch Microphone with 2671, TEDS

4231 Sound Level Calibrator

INTERRUPTED NOISE METHOD

4188 A-021 Prepolarized Free- and Diffuse-field 1/2-inch Microphone with

2671, TEDS
4943 L-001 Diffuse- field 1/2-inch Microphone with 2669 L, TEDS

4231 Sound Level Calibrator
2716 Power Amplifier

4296 OmniPower Sound Source with Tripod

4295 OmniSource Sound Source

ACCESSORIES

UA 0801 Lightweight Tripod

UA 1317 Preamplifier Holder

UA 0588 Preamplifier Holder

AO 0414/AO 0415/AO 0416

LEMO 1B to LEMO 1B

Connector (3 m/10 m/30 m)

KE 0358 Flight Case for 2716

KE 0392 Carrying Case for 4295

KE 0365 Flight Case for 4296

KE 0364 Carrying Case for Tripod 4296

AO 0524 10 m Cable BNC to 2716

AQ 0622 10 m Cable from 2716 to 4295, 4296

AQ 0621 Bridging Cable for 2716

Output (not for Type 4295)