

Chapter 3: Sound Measurement: Instrumentation and Noise Metrics

3

By William J. Murphy, Chucui A. Kardous, and Scott E. Brueck

Contents

Introduction	29
Microphone Selection and Calibration	31
Microphone Construction	31
Microphone Types	32
Microphone Dynamic Range	34
Calibration, Maintenance, and Environmental Factors	35
Factory Calibration of Microphones and Instruments	35
Traceability of Records	36
Sound Measurement Metrics	37
Root-Mean-Square Level	37
Peak Level	37
Weighting Filters	37
Time Constants	43
Time-Averaged Sound Level	42
Sound Exposure	43
Sound Exposure Level	44
Equivalent Sound Exposure Level	44
Time-Weighted Sound Level	44
Maximum Time-Weighted Sound Level	44
Octave-Band Analysis	44
Time-Waveform and Spectral Analysis	45
Noise Measurement Instruments for	
Industrial Hygiene	46
Instrument Standards	46
Class 1 and Class 2 Sound Level Meters	47
Noise Dosimeters	50
Spectrum Analyzers	53
Community Noise Analyzers	53
Recording Systems	53
Mobile Applications	53
Instrument Calibration	54
Sound Level Meter Calibrations	55
Dosimeter Calibration	55
Calibration of Other Instrumentation	55
Field Calibration	55

Potential Sources of Measurement Error	56
Barometric Correction	56
Corrections for Background Noise	56
Reflections	56
Quantization Errors	57
Humidity	58
Temperature	58
Radio Frequency and Electromagnetic Interference (EMI)	58
Mechanical Vibration	58
Summary of Potential Sources of Errors	59
Conclusions	60
Appendix: Specialty Instrumentation for	
Impulsive Noise	61
Resolution and Dynamic Range	62
Anti-Aliasing Filters	63
Impulse and Impact Noise	63
References	64

Introduction

In industrial hygiene practice, noise exposure is measured to assess its potential detrimental effects on humans. Although hearing damage is the primary concern, other effects such as speech interference and annoyance are also of interest. Two categories of measurement are necessary. One provides data for predicting the potential effect of noise exposure on humans; the other provides data for engineering purposes directed toward mitigating hazardous noise exposures.

Mikroprocessors, computers, inexpensive mass storage, and mobile devices have led to a revolution in noise-measuring instruments, data processing, and data retention. Connections between health factors and potential stressors in the environment permit a deeper level of understanding of their relationship with health outcomes. Because of the miniaturization of equipment and

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 - Determining Your Reading Goals
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 - Features to Look for in an Noise Sources Manual
 - User-Friendly Interface
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 - Noise Sources Manual and Bestseller Lists

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