



State of Oregon
Department of
Environmental
Quality

Requirements
For
Sound
Measuring
Instruments
And
Personnel

Department of Environmental Quality
Air Quality Control Division
Noise Pollution Control Section

I. Instruments

Purpose: To ensure maximum practical accuracy in any particular instrument and to minimize the difference in corresponding readings with various makes and models of instruments.

A. Specifications for sound level meters

Scope: All sound level meters shall conform to American National Standard Institute Standard number S1.4-1971. A Type II specification is the minimum requirement for sound level meters. The minimum accessory requirements are a random incidence microphone, a windscreen, and an acoustically coupled calibrator.

B. Specifications for octave and third-octave band filter sets

Scope: All octave and third-octave band filter sets shall conform to American National Standard Institute Standard number S1.11-1966. Type O Class II is the minimum requirement for octave and third-octave band filter sets.

C. Specifications for tape recorders or graphic level recorders

Scope: Magnetic tape recorder systems and graphic level recorder systems shall conform to Society of Automotive Engineers Recommended Practice J184, qualifying a sound data acquisition system.

D. Specifications for impulse sound measuring equipment

Scope: Impulse sound measurement instruments shall conform to American National Standard Institute Standard Number S1.4-1971. A Type I specification is the minimum requirement for sound level meters with a peak detector circuit.

II. Personnel

Purpose: To ensure the quality of measurements

A. Personnel Qualifications

Scope: Personnel conducting sound measurements shall have been trained and experienced in the current techniques and principles of sound measuring instrumentation appropriate to the measurements being taken.