

Class 1 Integrating Sound Analyzer Meter



Anaheim Scientific's Model S660 is a Class 1 Sound Level Meter. This superior Class 1 Sound Meter offers a wider frequency range and a tighter tolerance over a Class 2 unit. This integrating meter sums the frequency-weighted noise to give sound exposure levels. Designed specifically for measuring environmental, occupational and product noise.

Model S660 meets the current International standard for sound level meter performance IEC 61672-1:2002 Class 1. This standard directs the inclusion of an A-frequency-weighting filter and frequency weightings of C and Z (zero) frequency weightings.

Features:

- Measures the Frequency Weighting in parallel simultaneously of A, C, and Z weightings, sounds generally in the range of human hearing.
- 30~130 dB (A weighting). The A weighting is for general noise sound level.
- 35~130 dB (C weighting), C weighting is for measuring sound level of acoustic material control in various environments. C Weighting is usually used for Peak measurements.
- 40~130 dB (Z weighting). Z-weighting is a flat frequency response of 10 Hz to 20 kHz, a flat measurement with equal emphasis of all frequencies.
- Dynamic Range >110 dB. Dynamic range describes the range of the input signal levels that can be reliably measured simultaneously, in particular the ability to accurately measure small signals in the presence of large signals.
- Frequency Range: 10 Hz~16 kHz, wide range of human hearing.
- Microphone is industry standard 1/2" pre-polarized condenser. Removable for placement in locations away from the unit. Optional extension cables in either 15 ft (5m) Model MC15, or 20 ft (60 m) Model MC60, are available for this feature.
- Housed in an ergonomic instrument case with a high resolution graphic display and backlight. Portable in the included industrial aluminum carrying case. Also includes wind screen, batteries, and AC adaptor.
- Two year warranty.



Model S660

Designed for measuring environmental, occupational and product noise as well as meeting current worldwide standards for noise level measurements.

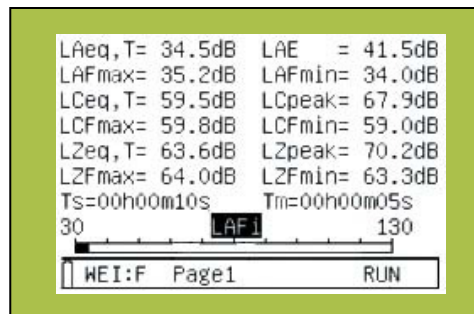
An integrating sound level meter sums the frequency weighted noise energy over a measurement period of time to display the sound exposure and is generally described in decibels (Sound Exposure Level or SEL).



Applications

- Workplace Noise measurements – keep employee performance at their peak by limiting noise and other distractions. Noise can shorten attention spans or cause permanent damage if loud enough.
- Measure Fast, Slow, Impulse and Peak values to determine hearing protection needs.
- Maintain sound levels at work for the protection of workers against noise-induced deafness. Chronic exposure to noise could cause noise-induced hearing loss.
- Environmental noise levels – S660 is ideal for spot noise enforcement checks with actual time using the S660 built-in real time clock
- S660 software contains a full range of statistical measurement distributions for measuring environmental noise
- Construction noise, power equipment of individuals and unmuffled industrial noise penetrating residential areas.
- Most city ordinances prohibit sound above a certain threshold intensity from trespassing over property lines at night.
- Follow stringent building codes with requirements of acoustical analysis, in order to protect building occupants from (a) exterior noise sources and (b) sound generated within the building itself.
- The U.S. Occupational Safety and Health Administration has established maximum noise levels for occupational exposure, beyond which mitigation measures or personal protective equipment is required.

Model S660 Screen Capture Shot



Includes:

- S660 instrument
- Industrial carrying case for portability and instrument protection
- AC adaptor for 100V to 240V
- Wind screen
- Shoulder carrying strap
- Batteries
- Users Manual

Optional Accessories:

- **CAL601** – Class 1 Sound Level Calibrator, Stable and precise calibrator for the microphone and S665 unit, Sound Pressure levels at 94 and 114 dB, Accuracy 94 ± 0.3 dB and 114 ± 0.5 dB, Frequency 1000 Hz ± 1 Hz
- **MC15** - Extension cable 15 ft (5m) provides ability to locate microphone away from the S660 Sound Analyzer
- **MC60** - Extension cable 60 ft (20m) provides ability to locate microphone away from S660 Sound Analyzer
- **RSCBL3** – RS232 cable

Specifications

Measurement Items	LxyI, Lxyp, Lxeq, Lxmin, LAE, LcPeak, Lzpeak X = A, C, Z Y = F, S, I
Measurement Range	30~130B (A), 35B~130dB (C), 40dB~130dB (Z)
Dynamic Range	>110 dB
Maximum Peak C Sound Level Measurement	70 to 133 dB
Time Weighting	Fast, Slow, Impulse, Peak
Frequency Weighting	A / C / Z
Integrating Time	Random, 10s, 1m, 5m, 10m, 20m, 30m, 1h, 2h, 4h, 8h, 16h, 24h
Frequency Range	10Hz ~ 16KHz
Sampling Frequency	20.8 μ s (48 kHz)
Analog Output	AC 20 mv/dB
Starting Time	< 10 sec
Microphone	1/2" pre-polarized condenser microphone with built-in preamplifier: 40 mv/Pa, frequency range: 10Hz ~ 16 kHz, heat noise: < 20 db (A)
Display	Digital LCD with backlight, Real time clock with year, month, minute
Power Requirement	LR6:4 ea AA Alkaline batteries (8 hours)
AC Adapter	100V to 240V
Dimensions	285(L) x 90(W) x 39(H) mm (11.2 x 3.5 x 1.5 in)
Weight	500g (including batteries) (1.1 lb)



22820 Savi Ranch Yorba Linda, California 92887
 Phone: 714.921.9095 | www.anaheimscientific.com

© 2010 Anaheim Scientific
 Information and specification are subject to change without notice.
 Document number, 2/2010

