



ONE SYSTEMS[®]
DIRECT WEATHER LOUDSPEAKERS

December 15, 2015 (supersedes prior editions)

Sound Pressure Level (SPL) Ratings

System sensitivity with one watt input, measured at one meter, and maximum continuous SPL (not peak), measured at one meter, are listed below for all One Systems models.

Caution should be exercised when comparing this data with that of products from other manufacturers. A sound reinforcement system that has a high one watt / one meter rating ONLY means it plays at a certain level with a specific power input. It does NOT mean that the system offers linear response, low distortion, or good time domain performance and balanced amplitude response.

An even greater level of caution should be exercised when viewing maximum SPL data from any manufacturer. This data is almost always derived by simple arithmetic that ASSUMES the system is totally linear. The typical max SPL data is calculated by taking the system's peak power handling specification and the one watt / one meter specification and calculating the maximum SPL. Again, this ASSUMES that the system is completely linear...and this is never the case.

For this reason, it is possible to have a very high maximum SPL rating and have a system that is TOTALLY unintelligible (but very loud!).

One Systems speakers are designed to provide very linear response regardless of input power levels. All One Systems designs are optimized for excellent time domain response and fidelity. They are designed to be played at high power levels, and to project very high fidelity with highly intelligible program material over long distances for both outdoor and high ambient noise indoor environments.

Full-Range “Direct Weather” Injection Molded Speaker Systems

<u>Model</u>	<u>1W / 1M</u>	<u>Continuous SPL</u>
104/HTH	87 dB	104 dB
106/HTH	89 dB	109 dB
108/HTC	92 dB	115 dB
108/HTH	92 dB (105x60 and 60x40)	115 dB
208/HTC	96 dB	122 dB
112/HTH	96 dB (105x60 and 60x40)	125 dB
212/HC	99 dB	130 dB
312/HC	99 dB	130 dB

Full Range “Direct Weather” Fiberglass Speaker Systems

<u>Model</u>	<u>1W / 1M</u>	<u>Continuous SPL</u>
CFA-2/HTH	105 dB	135 dB

“Direct Weather” Injection Molded Subwoofer Systems

<u>Model</u>	<u>1W / 1M</u>	<u>Continuous SPL</u>
112/HSB	96 dB	125 dB
118/HSB	98 dB (half-space)	127 dB