TCPA-10 Case Study

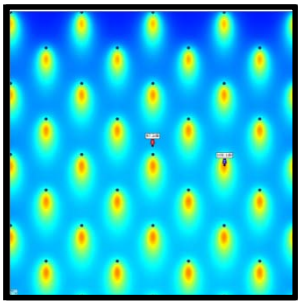
400 x 400 Sample Automotive Plant

HYPERSPIKE
When the Message Matters

Abstract: A large fire alarm company contacted HyperSpike® to evaluate their current "Gold Standard" for a typical 1600 ft² section of an automotive manufacturing facility. They were interested in the HyperSpike® value proposition to reduce the number of speakers and outperform the current specified speakers. The ambient sound pressure level (SPL) of the manufacturing facility was 80 dB. To comply with NFPA Code 72, the required mass notification SPL was 95 dB. The "Gold Standard" utilized 41 directional speakers tapped at 7.5W (307.5W total) placed at an approximate mounting height of 15 feet to achieve the needed 95 dB SPL.

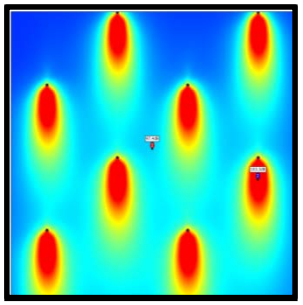
HyperSpike® evaluated the same 1600 ft² section and utilized 8 TCPA-10 speakers tapped at 24W (192W total) placed at an approximate mounting height of 25 feet and achieved 95 dB SPL. As a result, less labor was required to install the 8 HyperSpike® speakers versus the currently specified 41. The conclusion was that utilizing the HyperSpike® solution will significantly save the automotive manufacturer money because it will require less labor, minimal disruption to the production line during installation, and less life-cycle maintenance. HyperSpike® industry leading speech clarity (>.88 CIS/.75 STI score) enabled facility employees to clearly understand emergency voice messages and alert tones in a high ambient environment.

The "Gold Standard"

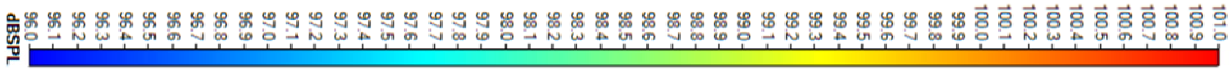


- 41 speakers
- 7.5W each
- Total 307.5W

HyperSpike® TCPA-10



- 8 speakers
- 24W each
- Total 192W



Contact us to sound model your space today and see how your project can benefit from the advantages of HyperSpike® technology.

Ultra ELECTRONICS

making a difference