

# CM82-EZ

## 8" COAXIAL IN-CEILING FIRE SIGNALLING SPEAKER

SOUNDTUBE  
ENTERTAINMENT



### Specifications: CM82-EZ

### Mounting hardware included

Nominal Impedance	16 ohm
Impedance (min)	17.2 ohm
Sensitivity dB @ 2.83V/1M	86.0dB
Sensitivity dB @ 1W/1M (2)	89.0dB
Frequency Response ( $\pm 3$ dB)	92 Hz - 18 kHz
Max. Program Power	128w
Max. Continuous Power RMS	64w
Max. Power SPL @ 1 M	107.0dB
Max. SPL @ 3dB distortion	20w
Directivity Factor (Q) (Averaged 100Hz - 10kHz, @ 2kHz)	5.4
Directivity Index (DI) dB (Averaged 100Hz - 10kHz, @ 2kHz)	5.5dB
Tap Selector	6 Position rotary switch with transformer bypass
70.7 Volt Transformer Taps	64w / 107.0dB
100 Volt Transformer Taps (dB)	64w / 107.0dB
25 Volt Transformer Taps (dB)	8w / 98.0dB
Network Type: Low Pass	6dB per octave, 1st order
Network Type: High Pass	6dB per octave, 1st order
Angle	105°
Colors	Black or white
Inputs	18-Gauge hard wired leads
Backcan Diameter	245.6 mm / 9.66 in
Backcan Height	146.1 mm / 5.75 in
Visible Diameter	298.5 mm / 11.75 in
Visible Height	8.6 mm / 0.33 in
Mounting Hole Diameter	266.7 mm / 10.50 in
Weight	4.1 kg / 9.03 lb
Shipping Weight	4.5 kg / 9.92 lb
Packaging	1 per box
Regulatory - UL	Approved 1480 & 2043
Regulatory - CE	Approved

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Regulatory - IP

**Mounting hardware included**

not planned

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### Description

An in-ceiling speaker specifically tailored for use in fire signaling system that delivers the same high quality sound expected of SoundTube speakers. One 8.0 inch (203 mm) polypropylene woofer with butyl rubber surround and one 1.0 inch (25.4 mm) silk dome tweeter. Easy-access five-position tap switch for 25/70.7/100-volt settings allows for easy ordering, stocking and installation. Reduced amplification costs and maximum efficiency 89.0 dB sensitivity, 16 ohm impedance and a sealed enclosure. Superior voice intelligibility with an average coverage angle of 95° (2-10 kHz, independently verified). Incorporates a painted steel grille with rust inhibitor for lasting durability. Adaptable to ceiling thicknesses ranging from 0.04 inch (0.9 mm) to 1.60 inch (40.6 mm). 10 µF capacitor provided on input circuit for use with DC supervision circuits. UL 1480 (UUMW) and 2043, cUL, CE (EMC Directive 89/366/EEC, EN55020, EN55013) approved. Included accessories: tile bridge, UL-listed 0.5-inch conduit clamp, and paint shield.

### Patented SoundTube Technologies

SoundTube and MSE Audio Group constantly develop new technologies that enhance audio product performance. SoundTube innovations are protected by multiple U.S. and international patents, which explicitly cover SoundTube dispersion, enclosure and dome technologies. MSE Audio Group actively defends its patents in order to protect SoundTube resellers and end users.

### Technical Data and Specification Tools

#### Technical Data

SoundTube Entertainment strives to provide complete and effective technical information and data to dealers, engineers and designers. All data are available from SoundTube Entertainment or at [www.soundtube.com](http://www.soundtube.com). Technical data and downloads include: EASE™ data - 3-D polar plots. EASE™ Address - 2-D modeling for distributed systems Autodesk® Revit®

software Tech Sheets - Technical information and architectural specs for system engineers SoundTubeSPEC™ - Proprietary speaker placement software

### Data Acquisition and Verification

All data for SoundTube speakers are independently collected from and verified by NWAALabs ([www.nwaalabs.com](http://www.nwaalabs.com)) using their proprietary MACH testing system. All data are collected and analyzed according to ASTM, ISO and AES standards using EASRA, TEF and MLSSA. Full balloon data including both phase and magnitude are compiled into a variety of formats including EASE 4.x, GLL and CLF.

### Architectural Specifications

No specifications currently.

#### SoundTube

8005 W. 110th St. | Suite 208  
Overland Park, KS 66210  
Phone 9136635600  
Fax 8556635600  
Toll Free 8556635600  
<https://soundtube.mseaudio.com>  
All SoundTube products come with a 5-year limited warranty.

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