GEH12 Low-frequency Horns

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- ▶ Evacuation tone
- ▶ Use the SuperSlide feature for easy testing
- ▶ Wide voltage range; 8 VDC to 17.5 VDC
- ► Select high or low frequency, high or low volume, and Temporal Code 3 or Continuous tone pattern
- ▶ Wire then install the entire system

The Gentex GEH12 Low-frequency Horns offer a dependable audible alarm and a low current draw.

Functions

Easy Installation and Testing

The user can wire then install the entire system, reducing installation and operating costs. Use the SuperSlide feature to test supervision.

Horn Output

The horns provide a selection of high or low volumes with a peak sound of 100 dBA or greater at 10 ft (3 m). They offer a choice between a 2400 Hz (remote signaling) tone or a broadband low frequency (1500 Hz to 3000 Hz) mechanical sounding (evacuation) tone where closed doors could be a problem. The user can also select either continuous or temporal Code 3 tone output, and synchronize the temporal signals by using the AVS Series Synchronization Modules or a compatible control panel.

Certifications and approvals

Gentex Corporation holds these Listings and Approvals:

Region	Certification	
USA	UL	ULSZ: Audible Signal Appliances (UL464)
	CSFM	see our website

Installation/configuration notes

Compatible Products

The following products are compatible with the GEH12 Series Horns:

Category	Product ID	Product Description
Control Panels	Compatible with all Bosch G Series, 6000 Series, 2000 Series, DS7400Xi and DS7400XiV4, DS7080iP-32, DS7200 Series, and DS7060 Series Control Panels ¹	
	D7022 ²	Conventional FACP
Modules	AVS-44	Synchronization module (red)
	AVS44-W	Synchronization module (white)
	AVSM-R	Synchronization module (red)
	AVSM-W	Synchronization module (white)

¹ For synchronization, use the AVS44 or AVSM Synchronization Modules with these control panels.

² The D7022 must be set for 12 VDC operation and requires the AVS44 or AVSM Synchronization Modules for synchronization.

Mounting Considerations Outdoor Applications

For an outdoor application or a severe environment (NEMA 3R) application, the GEH12 Series Horns must be surface mounted on a flat wall in a GOE Outdoor Enclosure. Use a watertight conduit fitting.

Indoor Applications

Install the horns with their tops at least 90 in. (2.3 m) above the floor and no closer than 6 in. (15.2 cm) to the ceiling. The horns are equipped with a four-inch square mounting plate that can be attached as follows:

	Conduit Applications	Surface Mounted	Semi-flush Mounted
Single-gang	•		•
Double-gang	•	•	•
Four-inch square	•	•	•
GSB	•	•	

Shipping Information

The horns are delivered from the factory set to the temporal lower frequency mode. Also included is a locking mechanism that secures the product to the bracket without any screws showing.

The input terminals accept wires with diameters between 18 AWG and 12 AWG (ISO 0.75 mm² and 4 mm²).

Parts included

Quant.	Component
1	Horn with finish plate
1	Die-cast mounting plate
1	Plastic test card
1	Hardware pack
1	Literature pack

Technical specifications

Electrical

Voltage Range:	8 VDC to 17.5 VDC
Voltage (Input):	12 VDC nominal

Environmental

Relative Humidity	Up to 93% non-condensing
Temperature (Operating):	+32°F to +120°F (0°C to +49°C)

Mechanical

Dimensions (HxWxD):	5.0 in. x 4.5 in. x 2.5 in. (12.7 cm x 11.4 cm x 6.4 cm)
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Alarm Patings

Alarm Ratings	
Horn (Continuous, 2400 Hz)	
Audible Device Current (maximum):	29 mA RMS
Sound output at 10 ft (3 m) at 12 VDC:	High output: 78 dBA Low output: 73 dBA
Horn (Continuous, Mechanical)	
Audible Device Current (maximum):	26 mA RMS
Sound output at 10 ft (3 m) at 12 VDC:	High output: 81 dBA Low output: 75 dBA
Horn (Temporal Code 3, 2400 Hz)	
Audible Device Current (maximum):	29 mA RMS
Sound output at 10 ft (3 m) at 12 VDC:	High output: 78 dBA Low output: 73 dBA
Horn (Temporal Code 3, Mechanical)	
Audible Device Current (maximum):	26 mA RMS
Sound output at 10 ft (3 m) at 12 VDC:	High output: 78 dBA Low output: 72 dBA*
Chime (Continuous)	
Audible Device Current (maximum):	13 mA RMS
Sound output at 10 ft (3 m) at 12 VDC:	High output: 64 dBA* Low output: 63 dBA*
Chime (Temporal Code 3)	
Audible Device Current (maximum):	13 mA RMS
Sound output at 10 ft (3 m) at 12 VDC:	High output: 63 dBA* Low output: 62 dBA*
Whoop	
Audible Device Current (maximum):	55 mA RMS

^{*} If you operate the horn in this mode at this voltage, it does not meet the UL reverberant sound level required for public mode fire protection service. These settings are acceptable only for private mode fire alarm use. Use the high output setting for public mode application.

High output: 79 dBA Low output: 74 dBA*



Notice

Sound output at 10 ft (3 m) at 12 VDC:

The sound output for the temporal (Code 3) tone is rated lower because the time the horn is off is averaged into the sound output rating. When the horn is producing a tone in the Temporal mode, its sound pressure is the same as the Continuous mode.

Trademarks

All hardware and software product names used in this document are likely to be registered trademarks and must be treated accordingly.

Ordering information

GEH12WR 12 VDC Horn (red)

Red, 12 VDC horn; field-selectable for high or low frequency, high or low volume, and temporal (Code 3) or continuous tone pattern
Order number GEH12WR

GEH12WW 12 VDC Horn (white)

White, 12 VDC horn; field-selectable for high or low frequency, high or low volume, and temporal (Code 3) or continuous tone pattern
Order number **GEH12WW**

Accessories

AVS-44 Synchronization Control Module (red)

Synchronization Control Module primarily for use with the Gentex HS24 Series and ST24 Series notification appliances.

Not Available.

Order number AVS-44

AVS44-W Synchronization Control Module (white)

Synchronization Control Module primarily for use with the Gentex HS24 Series and ST24 Series notification appliances.

Not Available.

Order number AVS44-W

AVSM-R Synchronization Control Module (red)

Synchronization module for use with all Gentex synchronizable notification appliances except the HS24 Series and the ST24 Series.

Not Available.

Order number AVSM-R

AVSM-W Synchronization Control Module (white)

Synchronization module for use with all Gentex synchronizable notification appliances except the HS24 Series and the ST24 Series.

Not Available.

Order number AVSM-W

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