

## Gentex GX93W

# Gentex GX93-W Fire Evacuation Mini-Horn User Manual

Model: GX93W

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## 1. OVERVIEW

The Gentex GX93 Series mini-horn is a remote signaling appliance designed for dependable annunciation in supervised fire protective systems. It is suitable for use with both filtered and unfiltered power sources and meets NFPA and other relevant code requirements. The GX93 Series offers field-selectable 12VDC or 24VDC operation, providing flexibility for various system configurations. It can produce either a temporal or continuous tone.

Key features include:

- **Field Selectable Voltage:** Operates on 12VDC or 24VDC, accommodating regulated and non-regulated power sources.
- **Tone Options:** Provides temporal or continuous tone output.
- **Wiring Compatibility:** Terminal blocks support 12 AWG to 18 AWG wires.
- **Durable Construction:** Features a textured high-impact plastic faceplate.
- **Flush Mounting:** Designed for unobtrusive installation on walls or ceilings.
- **Synchronization Capability:** Can be synchronized with other GX93 Series horns using a Gentex Synchronization Module (e.g., GX91/GX93).
- **Certifications:** UL/ULC dual listed, ensuring compliance with fire safety standards.



Figure 1: Gentex GX93 Series Mini-Horns. An image showing two Gentex GX93 Series mini-horns. The one on the left is off-white, and the one on the right is a darker color, likely red or gray. Both units feature a rectangular design with vertical grilles for sound output and a small indicator light at the bottom.

## 2. SAFETY INFORMATION

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Read all instructions carefully before installation and operation. Failure to follow these instructions may result in property damage, serious injury, or death.

- Installation must be performed by qualified personnel in accordance with all national and local codes and standards, including NFPA 72.
- Disconnect all power to the fire alarm control panel (FACP) or power supply before wiring.
- Ensure proper polarity when connecting wiring to avoid damage to the device.
- Do not paint over the device, as this may impair its functionality.
- Test the device regularly as part of a comprehensive fire alarm system maintenance plan.
- This device is intended for indoor use only.

## 3. SETUP & INSTALLATION

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### 3.1 Mounting

The GX93-W mini-horn is designed for flush mounting on walls or ceilings. Ensure the mounting location is clean, dry, and free from obstructions. The device should be mounted in accordance with local building codes and NFPA 72 requirements for audible signaling devices.

1. Select a suitable mounting location on a wall or ceiling.
2. Prepare the electrical box or mounting surface according to standard practices.
3. Secure the device's mounting plate (if applicable) to the electrical box or surface.
4. Ensure the device is securely fastened and flush with the mounting surface.

### 3.2 Wiring

Wiring must be performed with power disconnected from the FACP. The GX93-W supports 12 AWG to 18 AWG wires. Observe proper polarity.

1. Connect the positive (+) wire from the FACP or power supply to the positive terminal on the GX93-W.
2. Connect the negative (-) wire from the FACP or power supply to the negative terminal on the GX93-W.
3. If using a synchronization module (e.g., Gentex GX91/GX93), refer to the synchronization module's manual for specific wiring instructions.
4. Ensure all connections are secure and properly insulated.

### 3.3 Voltage and Tone Selection

The GX93-W allows for field selection of operating voltage (12VDC or 24VDC) and tone type (temporal or continuous). Consult the device's internal jumpers or switches for configuration. Refer to the markings on the device for specific settings.

## 4. OPERATION

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The Gentex GX93-W mini-horn functions as an audible signaling device within a supervised fire alarm system. When activated by the FACP, it will emit an audible tone according to its configured settings (temporal or continuous).

- **Temporal 3 Tone:** This is a specific pattern of three short bursts followed by a pause, commonly used for fire evacuation signals. Note that the sound output rating for temporal 3 tone is averaged, meaning the peak sound pressure during the tone burst is higher than the stated average.
- **Continuous Tone:** A steady, uninterrupted audible signal.
- **Synchronization:** If connected to a compatible synchronization module, multiple GX93 Series horns will activate in a synchronized pattern.

## 5. MAINTENANCE

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Regular maintenance ensures the continued reliable operation of your GX93-W mini-horn.

- **Cleaning:** Periodically clean the exterior of the device with a soft, dry cloth to remove dust and debris. Do not use abrasive cleaners or solvents.
- **Testing:** The mini-horn should be tested regularly as part of the overall fire alarm system testing protocol, as required by NFPA 72 and local authorities.
- **Inspection:** Visually inspect the device for any signs of damage, discoloration, or loose connections.
- **Do Not Disassemble:** Do not attempt to disassemble or repair the device. Refer all servicing to

qualified personnel.

## 6. TROUBLESHOOTING

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If the GX93-W mini-horn is not functioning as expected, consider the following:

- **No Sound:**

- Check power supply to the FACP and the device.
- Verify wiring connections for proper polarity and secure contact.
- Ensure the FACP is activating the signaling circuit.
- Confirm correct voltage selection (12VDC or 24VDC) matches the power supply.

- **Incorrect Tone:**

- Verify the tone selection settings (temporal or continuous) on the device.
- If using a synchronization module, ensure it is correctly configured and functioning.

- **Intermittent Operation:**

- Inspect wiring for loose connections or damaged insulation.
- Check for voltage fluctuations from the power source.

If issues persist after troubleshooting, contact qualified fire alarm service personnel.

## 7. SPECIFICATIONS

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Attribute	Value
Model Number	GX93W
Brand	Gentex
Operating Voltage	12VDC or 24VDC (Field Selectable)
Tone Type	Temporal 3 or Continuous (Field Selectable)
Wiring Compatibility	12 AWG to 18 AWG
Mounting Type	Flush Wall Mount, Flush Ceiling Mount
Product Dimensions	3 x 3 x 1.5 inches (approximate)
Item Weight	3.2 ounces (approximate)
Color	Off-White
Certifications	UL/ULC Listed (UL 464)
UPC	700217022856

## 8. WARRANTY & SUPPORT

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### 8.1 Warranty Information

The Gentex GX93-W mini-horn is warranted for **three years** from the date of purchase against defects in

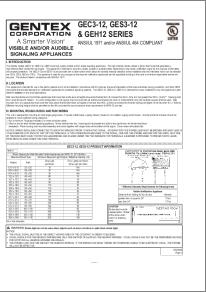
materials and workmanship under normal use. This warranty does not cover damage caused by improper installation, misuse, abuse, or unauthorized modifications.

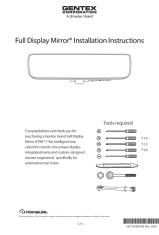
## 8.2 Technical Support

For technical assistance, installation questions, or warranty claims, please contact Gentex customer support or your authorized Gentex distributor. Please have your model number (GX93W) and date of purchase available when contacting support.

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## Related Documents - GX93W

	<p><a href="#"><u>Gentex GEC3-12, GES3-12, GEH12 Audible and Visible Signaling Appliances Manual</u></a></p> <p>User manual for Gentex GEC3-12, GES3-12, and GEH12 series audible and visible signaling appliances. Covers installation, wiring, operation, troubleshooting, and warranty for fire alarm systems.</p>
	<p><a href="#"><u>Gentex 8000 Series Photoelectric Smoke Detector Installation and Owner's Manual</u></a></p> <p>Installation instructions and owner's information for Gentex 8000 Series Photoelectric Type Open Area System Smoke Detectors. Covers models 8240, 8243, 8100, 8103, specifications, operation, placement guidelines per NFPA 72, installation, maintenance, and warranty.</p>
	<p><a href="#"><u>Gentex 7139CS &amp; 7139LS Smoke Alarms: Installation and User Manual</u></a></p> <p>Comprehensive guide for installing and operating Gentex 7139CS and 7139LS photoelectric smoke alarms. Includes safety information, wiring, mounting, maintenance, and troubleshooting for commercial and residential use.</p>
	<p><a href="#"><u>Gentex 8000/8003 Series Photoelectric Smoke Detector Specifications and Applications</u></a></p> <p>Detailed information on the Gentex 8000/8003 Series photoelectric smoke detectors, including applications, standard features, product listings, compliance, electrical specifications, and wiring diagrams. Suitable for commercial, industrial, residential, and institutional use.</p>

 <p>Full Display Mirror® Installation Instructions</p> <p>Comprehensive guide for installing, operating, and troubleshooting the Gentex Full Display Mirror (FDM). Includes detailed steps, feature explanations, and a 36-month limited warranty from Vortex Electronics Corporation.</p>	
 <p>Gentex by VOXX Corporation Installation Instructions</p> <p>Comprehensive installation instructions for the Gentex Auto-Dimming Mirror with Compass and Temperature (Model ADVGEN20A) by VOXX Corporation. This guide covers kit contents, tools required, detailed step-by-step installation, wiring, testing, compass adjustment, temperature features, and troubleshooting.</p>	