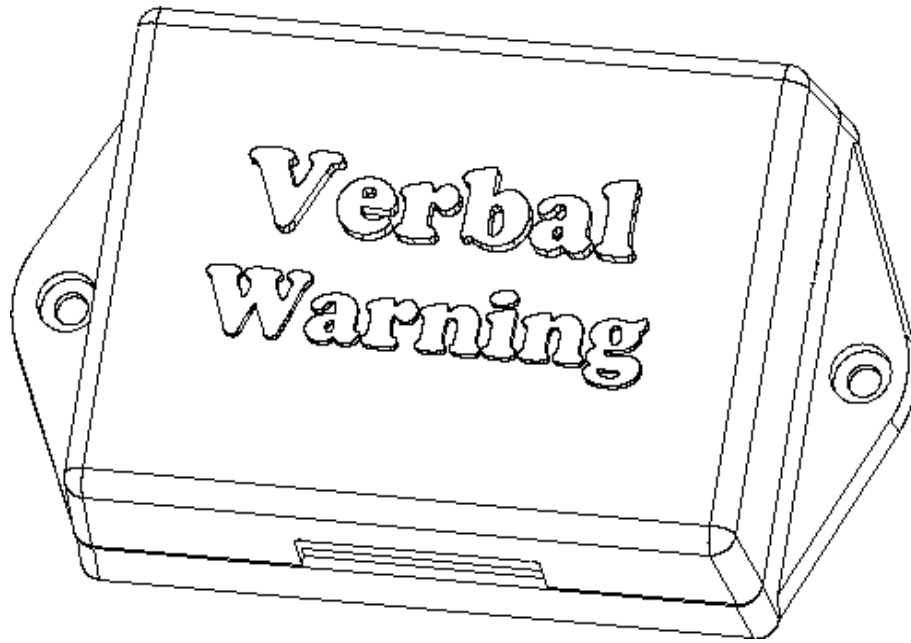


# **VERBAL WARNING™**

## **Owner's Manual**



## Introduction

**Thank you for purchasing Verbal Warning. We believe that this product offers an innovative and inexpensive way to provide an extra measure of safety for your passengers. Unlike just lights and tones, the use of distinct, situation-appropriate messages has been shown to increase passenger awareness and understanding inside the vehicle and within the danger zones outside the vehicle.**

**In order to receive the maximum benefit from Verbal Warning, please review this manual thoroughly before installing and using.**

## Product Warranty

**Robotics Technologies, Inc. (RTI) warrants this product to be free from defects in materials and workmanship for a period of one (1) year from the date of purchase. Its obligation under this warranty is limited to repairing or replacing at its own sole option any such defective products. To obtain service under this warranty, you must obtain a Return Material Authorization (RMA) number from RTI. Products must be returned to RTI with transportation charges prepaid and must be accompanied by a brief description of problem encountered and proof of date and place of purchase. This warranty does not apply to equipment that has been damaged by accident, negligence or misapplication, or has been altered or modified in any way. This warranty applies only to the original purchaser.**

**Except as provided herein, RTI makes no warranties, express or implied, including warranties of merchantability and fitness for a particular purpose.** Some states do not permit limitation or exclusion of implied warranties; therefore, the aforesaid limitation(s) or exclusion(s) may not apply to the purchaser.

**Except as provided above, in no event will RTI be liable for direct, indirect, special, incidental, or consequential damages arising out of the use of this product even if advised of the possibility of such damage.** Specifically, RTI is not liable for any costs such as loss of profits or revenue, loss of equipment, costs of substitutes and claims by third parties or otherwise. This warranty gives you specific rights and you may also have other rights that vary from state to state.

## Product Overview

**Verbal Warning** will sound up to nine verbal messages, depending upon the activation of eight external signal inputs. The first two of these inputs are special, because they are configured to react in a specific sequence, reflecting the most common usage in school and transit buses. This operation is detailed below.

### Signal Input Map

Input	Wire Color	Signal Level	Std. Trigger Source	Std. Message
1	Violet	+12VDC	Flasher Lights	Msg1
2	Blue	+12VDC	Door Opened	Msg2
2	Blue	Ground	Door Closed (Door Opened First)	Msg3
3	Green	+12VDC	User Switch	Msg4
4	Yellow	+12VDC	User Switch	Msg5
5	Orange	+12VDC	User Switch	Msg6
6	Red	+12VDC	User Switch	Msg7
7	Brown	+12VDC	User Switch	Msg8
8	Black	+12VDC	User Switch	Msg9

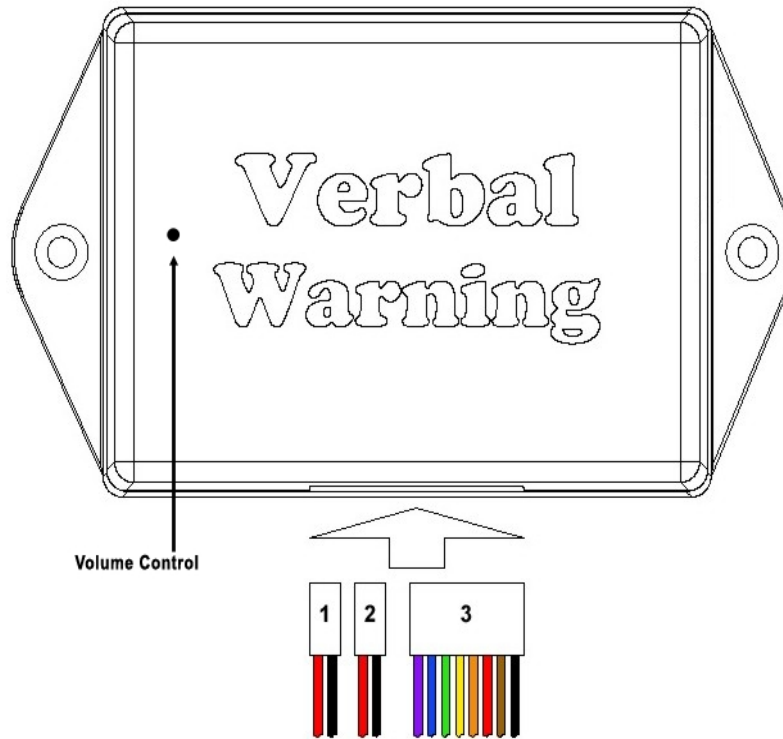
### Map of Standard Messages

Message	Inside Message
Msg1	<b>Warning!</b> The Bus is about to stop! Please be seated.
Msg2	Use caution when entering the bus.
Msg3	<b>Warning!</b> The Bus is about to move! Please be seated.
Msg4	<b>Warning!</b> Driver, check your bus for remaining passengers..
Msg5	<b>Attention!</b> We are not responsible for items left on the bus.
Msg6	<b>Notice!</b> This bus uses video recording equipment.
Msg7	<b>Be Careful!</b> Watch your step!
Msg8	Driver, please check safety equipment before proceeding.
Msg9	¡Atención! El autobús está a punto de parar. Por favor, tomen asiento.

These messages are already installed in **Verbal Warning™** when you receive it. We can also provide other messages in selected languages (English, Spanish, French and German). Combinations of two languages are also available.

## Installing and Wiring Verbal Warning

Verbal Warning is easy to install and wire. The low-profile, small-footprint enclosure can be installed just about anywhere in the vehicle, and the power requirements are modest. We have provided a **mounting template** for easy location of mounting holes (on back cover). **See the wiring diagram below:**



Connector	Function
1	Speaker (polarity not important)
2	Power (Red = +12VDC, Black = Ground)
3	Activation Signals (+12VDC to activate)

### Connector 3 Detail:

Color	Violet	Blue	Green	Yellow	Orange	Red	Brown	Black
Function	Signal 1	Signal 2	Signal 3	Signal 4	Signal 5	Signal 6	Signal 7	Signal 8

## Notes:

- **You must provide a fuse for the +12VDC supply at no greater than 3A.**
- In all cases but one, messages will be activated upon the application of +12VDC to a signal input. The **single exception** to this is the **Blue** wire (Pin 2), whereby a message will be sounded when there is an application of +12VDC, then a *different* message will be sounded upon the removal of +12VDC (the opening and closing of the door). This automates the door open/close sequence without user intervention.
- Never connect a speaker of less than 4 ohms to the unit. Doing so may exceed the power ratings of the amplifier, cause excessive heating or damage to the unit, and void the warranty.

## Controlling The Volume

The volume control is accessible through the small (0.125") hole in the cover of the unit. The control is a multi-turn type and requires a small (jeweler's) screwdriver to adjust. The multi-turn control provides greater precision in adjustment, as well as better stability in maintaining its settings in the high-vibration automotive environment. Turn counter-clockwise to increase volume.

## Verbal Warning Specifications

<b>Dimensions</b>	5.625" L x 3.375" W x 1.25" H
<b>Operating Voltage/Current</b>	10 - 14 VDC @ < 2 Amps During Message
<b>Quiescent Current</b>	< 8 milliamperes (No Message Being Played)
<b>Audio Channels</b>	1 Mono
<b>Audio Power</b>	Total 20 Watts
<b>THD</b>	< 10% @ 20W into 8 $\Omega$
<b>Inputs</b>	8 Inputs, each with > 10 <sup>8</sup> $\Omega$ impedance
<b>Message Memory</b>	Internal Flash, 16MB
<b>Message Capacity</b>	>1 Hour
<b>Message Format</b>	MP3
<b>Message Bitrate</b>	Variable. Standard 48 Kilobytes/Second

## Standard Messages

### English

Message 1:	Caution! The bus is about to stop. Please be seated.
Message 2:	Use caution when entering the bus.
Message 3:	Warning! The bus is about to move. Please be seated.
Message 4:	Driver! Please check your bus for remaining passengers.
Message 5:	Attention! We are not responsible for items left on the bus.
Message 6:	Notice! This bus uses video recording equipment.
Message 7:	Be Careful! Watch your step!
Message 8:	Driver, please check safety equipment before proceeding.

### Spanish

Message 1:	¡Atención! El autobús está a punto de parar. Por favor, tomen asiento.
Message 2:	Tenga cuidado al entrar en el autobús.
Message 3:	Advertencia! El autobús está a punto de moverse. Por favor, tomen asiento.
Message 4:	Conductor! Por favor, compruebe su autobús para los pasajeros restantes.
Message 5:	¡Atención! No somos responsables por artículos olvidados en el autobús.
Message 6:	Tenga en cuenta! Este bus usa un equipo de grabación de vídeo.
Message 7:	¡Ten cuidado! Cuidado con el escalón!
Message 8:	Conductor, por favor revise el equipo de seguridad antes de proceder.

### French

Message 1:	Attention! Le bus est sur le point de s'arrêter. S'il vous plaît être assis.
Message 2:	Soyez prudent lorsque vous entrer dans le bus.
Message 3:	Attention! Le bus est surle point de se déplacer. S'il vous plaît être assis.
Message 4:	Pilote! S'il vous plaît vérifier votre bus pour les passagers restants.
Message 5:	Attention! Nous ne sommes pas responsable des objets laissés sur le bus.
Message 6:	Avis! Ce bus utilise un équipement d'enregistrement vidéo.
Message 7:	Soyez prudent! Attention à la marche!
Message 8:	Pilote, s'il vous plaît vérifier l'équipement de sécurité avant de continuer.

### German

Message 1:	Achtung! Der Bus ist im Begriff, zu stoppen. Bitte nehmen Sie Platz.
Message 2:	Vorsicht beim Betreten des Busses.
Message 3:	Warnung! Der Bus ist über sich zu bewegen. Bitte nehmen Sie Platz.
Message 4:	Driver! Bitte überprüfen Sie Ihre Bus für die übrigen Passagiere.
Message 5:	Achtung! Wir sind nicht verantwortlich für Einträge in den Bus verließ.
Message 6:	Beachten Sie! Dieser Bus nutzt Video-Aufnahmegeräte.
Message 7:	Seien Sie vorsichtig! Vorsicht Stufe!
Message 8:	Treiber, überprüfen Sie bitte Sicherheitsausrüstung, bevor Sie fortfahren.