

Providing vehicle operators with clear and precise verbal alerts.



The Audio Alert System provides vehicle operators clear and precise verbal alerts when an input trigger has been detected.

Operators often struggle to decipher a variety of warnings, lights and symbols that appear on their dashboard. Often these complicated warnings confuse the operator and are ignored as they are unsure what to do.

Examples of warning messages could cover high engine temperature, headlights on, tailgate open or even over-speed detection. The possibilities are endless.

The Audio Alert System can be programmed with up to 16 individual pre-recorded audio files, these files can be prioritised to allow critical alarms to override lower priority messages.

It has been designed to be rugged and reliable and is housed in a die-cast aluminium enclosure. An IP65 environmental rating protects electronics from dust and moisture allowing flexible installation in a complicated vehicle system.

Look at the benefits:

- Built-in amplifier can directly drive an 8 ohm speaker
- Easy to configure programming through audio file naming
- Micro SD card slot allows simple loading of audio files
- Configurable volume and delay for each input channel
- Rugged and sealed aluminium housing designed for moisture and dust protection



The Audio Alert System has been designed with 16 input channels which can be prioritised on installation, allowing critical alarms to override low priority messages.

Each channel contains a saved audio file name that allows for customised configuration, some of which include high and low input triggers, the number of times the recorded message is repeated, message volume and a timed delay before triggering if required.

Customisable verbal alerts

It comes supplied with 16 pre-installed sound files and also features a Micro SD card slot which enables users to load their sound files.

The unit is compatible with common sound formats including MP3, WAV, OGG, MP2 and WMA.

An in-built amplifier allows messages to be relayed (spoken) through an 8 ohm speaker, however there is a line-out connection which can be extended to an external amplifier or PA system.

It features a wide input voltage range of 10 to 30 volts.

This enables it to be used in 12 and 24 volt vehicles, making it perfect for cars, trucks, buses and other heavy vehicles and machinery.



Uploading audio files

Common audio file formats like MP3 and WAV can be loaded onto the device's internal memory using a Micro SD card (not included).

A text to speech program can be used to create customised voice messages for each input.

Once created, the voice files must be named correctly so the device can understand how to use them. The filename specifies the message priority number, positive or negative trigger type, volume, repeats and delay before playing.

Once named correctly, files can be placed onto a Micro SD card which can then be inserted into the Audio Alert System.

Hold the 'Test' button on the circuit board, until the LED starts flashing purple and you hear 'Programming' from the speaker.

Once completed, remove the Micro SD card and power cycle the device. A short press of the 'Test' button will confirm everything is working correctly.

Custom configuration

The Audio Alert System is capable of driving up to three relay outputs – contact Hummingbird Electronics for more information on this advanced configuration.

We can also customise the device for your fleet and accept inputs from CAN, J1939 or RS485 systems.

Works best with:

Configurable Cabin Pressure Monitor

HMPS1000BKIT

The Configurable Cabin Pressure Monitor measures pressure in a cabin and compares it with atmospheric pressure. When the pressure falls below a critical level it warns the operator. When paired with the Audio Alert System it can provide a verbal announcement for customised alerts relating to high or low pressure events, for example "Warning, low cabin pressure detected".



Dual Axis Inclinometer - Elite

HMDS8000/HMDS8100

The Dual Axis Inclinometer - Elite provides visible pitch and roll readouts via a colour display. It features logging of time, date, GPS location and speed and is ideally suited to mining and civil engineering equipment. When paired with the Audio Alert System it can provide a verbal announcement for a range of customised alerts relating to pitch and roll warnings, for example "Warning, dangerous vehicle angle".



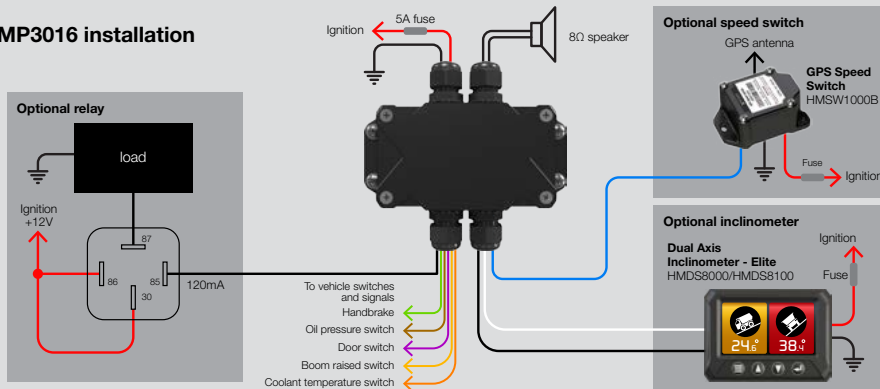
GPS Speed Switch

HMSW1000B

The GPS Speed Switch is a calibration-free, speed-based relay which provides a warning or can take action when a vehicle exceeds a given speed. When paired with the Audio Alert System it can provide a verbal announcement for customised alerts relating to overspeed warnings and dangerous driving, for example "Warning, site speed limit exceeded".



HMMP3016 installation



Specifications

Part number	HMMP3016
Supply voltage	Minimum 10V - maximum 30V
Supply current	Standby: 35mA@12V DC Playback: up to 2A depending on speaker and audio file A 5A fuse must be installed on positive supply
Inputs	Twelve individually configurable high and low digital inputs Four configurable negative digital inputs
Voltage on inputs	Minimum -1V, maximum 30V Must not exceed the supply voltage
Cable glands	Four M16 x 1.5 glands included - to fit cable diameter 4 to 8mm
Speaker outputs	2 terminals for direct connection to a single 8-ohm speaker Delivers up to 10W output power
Line out	Three terminals for left, right and common line outs
Enclosure rating	IP65 equivalent when assembled correctly
Operating temperature	-10°C to 70°C; 5% to 95% relative humidity
File system	Micro SD card formatted to FAT32
Weight	311g
Dimensions	147 x 74 x 42mm (excluding glands)

Visit hmbe.com.au/audio-alert-system for more product information

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