MACKENZIE

DADS-MB701

In Vehicle Automatic Announcement System

Key Features:

- **High Reliability / ADA Transit Rated**
- **Two Channel, High Quality Audio**
- **Integrated 20 Watt amplifier/Ch.**
- **Automatic Level Control**
- **High Speed USB Downloadable**
- **Integrated Memory Database Storage**
- **Variable Message Sign support**
- **J1708 / J1587 Triggering**
- **RS232 Auxiliary Communications Port**
- **Backwards compatible with DADS-A1214 systems**

The **DADS-MB701** is a full featured, ADA compatible device for in-Bus application of next stop and destination automated announcement. It incorporates audio output with associated text, Automatic level control, industry standard triggering interface and highly reliable operation in a compact ruggedized package.

Audio Messaging - The **DADS-MB701** contains Two independent/simultaneous audio channels.

Amplifiers - A 20W amplifier is provided for each of the Two audio channels.

Automatic Level Control (ALC) - Adjusts the audio output level of each channel based on the ambient level.

Text Messaging - Allows a text message to be associated with an audio message. When an audio message is triggered, a text message may be sent out of the auxiliary port for display on a compatible LED/LCD message sign.

Operator Microphone Interface – Provides seamless integration between automated and Ad Hoc announcements.

MPEG Audio Coding - Provides efficient, high quality audio. The system can accommodate 1000's of messages and hours of audio.

Memory - Audio and text databases are stored in large capacity non-volatile FLASH memory.

USB Key Interface - Allows for convenient route/stop database and program updates.

J1708 / J1587 – Transit industry standard communications interface for compatibility with numerous triggering devices including Mobile Display Terminals (MDT).

RS232 Auxiliary Communication Port - This connection allows an operator to control or download data to the system from a laptop computer or other compatible device.
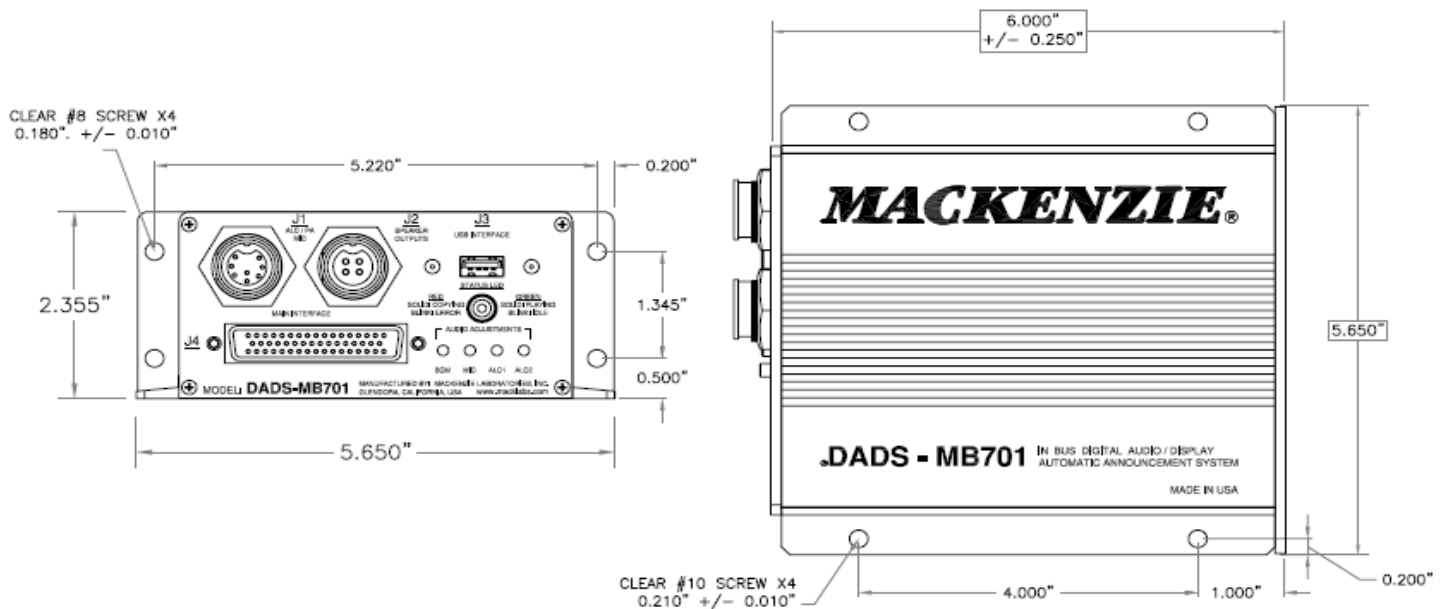
Optional Features –
- Wireless Ethernet (802.11b/g) connectivity for files updates.
- A real time clock controller, with Battery backup.
- Configuration of audio level adjustment based on the time of day

Making A Difference, One At A Time

SPECIFICATIONS

Electrical

Input Voltage:	12 / 24VDC nominal (9-32VDC)
Fuse:	Internal, Self Resetting

Audio

Channels:	2, Mono
Coding:	MPEG 1, Layer 3 (MP3)
Frequency response:	20 Hz to 20 kHz, +/-3dB
THD:	<0.1%
Signal to noise ratio:	85dB
Output:	600 ohm, line level, unbalanced

Amplifier

Channels:	2, independent
Power:	20 watts (rms) per channel
Drive:	4 / 8 ohm

Automatic Level Control

Performance:	Up to 19dB of gain, adjustable sense level, independent for each channel

Operator Microphone Interface

	Low Noise microphone preamp, Activation control, Level Adjustment

Communications

Message Triggering:	J1708 / J1587
Auxiliary:	RS232

Memory

Type:	1GB FLASH Memory
Package:	Industrial SD Card

Connections

DB-50M	Power, J1708/J1587, RS232, Two Playing Relays, Line Outputs and Misc. controls
4282-8SG-300	8 pin sealed circular for ALC inputs & PA microphone
4382-4SG-300	4 pin sealed circular for CH1 & CH2 speaker out
USB-A type (F)	For USB Memory Key

Mechanical

Size(approx):	5.6" W x 6.0" D x 2.4" H
Material:	Painted aluminum extrusion
Mounting:	Flanges w/ mounting holes

Environmental

Storage Temp:	-40 to +70ºC
Operating Temp:	-30 to +60ºC, 98% RH
Vibration, operating:	4G RMS, 5Hz to 150Hz
Endurance:	8G RMS, 100Hz to 1,100Hz
Shock:	30G peak, 6 milliseconds
EMI/RFI:	FCC 15, class A