

Addressable Amplified Speaker

Models 13353, 13363 and 13373



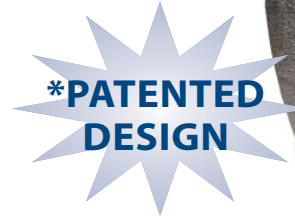
Features

- **Built-in Amplifier for Public Address Applications**
- **83 - 116 dB SPL Output at each Speaker**
- **Radio Control (UHF/VHF) and 600-Ohm Input Models**
- **Addressable (individual, zoned, all-page) via DTMF or 2-Tone**
- **Automatic Volume Level Control**
- **Remote DTMF Volume Control**
- **Addressable Output Control**
- **12 V dc Input Power (120 V ac Power Supply Included)**
- **Battery Back-up Option w/ Low Battery Alert**
- **External Long-Life Battery Option**
- **Solar Panel Power Option**
- **Weatherproof Power Supply Option**
- **Surface or Pole Mounting**
- **Rainproof Rating**
- **Power Saver Feature**
- **PC Programmable**

Applications

- Mass Notification
- Warehouse/Factory, Indoor/Outdoor, Offices
- Public Gatherings (parades, carnivals, sporting events)
- Construction Sites, Entry Gates
- Amusement Parks, Golf Courses, Ski Resorts
- Security and Public Safety
- Temporary or Permanent Public Address Installations

GAI-TRONICS' **Addressable Amplified Speakers** provide superior performance for any permanent or temporary public address application. Each speaker is completely self-contained and needs nothing more than 12 Vdc power and an input signal to provide an extremely intelligible audio output of up to 116dB SPL. Eliminating the need for a central audio power amplifier, as required in most public address systems, increases system reliability by removing a single point of failure.



Models **13363** and **13373** are *patented units that incorporate VHF and UHF radio receivers (respectively) to provide wireless, one-way broadcasting from a few feet to miles away (dependent upon terrain and the antenna system). These speakers can be added to any existing VHF (154-174 MHz) or UHF (450-470 MHz) radio system with minimal effort or cost. The need for routing signal cable is eliminated, greatly reducing installation costs. Local 12 Vdc or battery/solar power are all that is necessary to reliably broadcast from a portable, mobile, or base radio.

The Model **13353** (patent pending) will accept a hard-wired input from any 600 Ohm, 0 dBm source. Two telephone pairs are required for generic operation, and a single telephone pair is required for DTMF Selective operation. This configuration will provide one-way broadcasting utilizing existing telephone wiring (with local or solar power).

All models can be programmed for individual, group, or all-page access via DTMF or 2-Tone coding (up to 8 different addresses). A programmable output contact, rated at 100 mA, is available with each address. Each model can also be programmed for Automatic Volume Level Adjustment, permitting the speaker to automatically adjust its own volume based on the surrounding ambient noise. Each speaker can also provide a feed-through audio output and a low battery alert (if equipped with an optional battery back-up kit).

All field terminations are via terminal block and provisions for connecting a hard-wired, L-pad volume control are included. The Addressable Amplified Speaker is NEMA 3R equivalent and can be surface mounted or pole mounted.

***Patent No.'s US 7,826,628 B2
US 8,340,326 B2**

Specifications for Models 13353, 13363 & 13373

Electrical (Typical)

Power: 4 mW to 8 watt continuous
 Impedance: 8 ohms
 Output Range (dB) 83-116 dB (@ 1 meter on axis)
 Frequency Response: 450 Hz to 3000 Hz +/-5 dB
 Dispersion: 90 degrees nominal horizontal coverage; +40, -60 vertical coverage

Mechanical

Mounting Direct wall mounting (pole mounting with kit)
 Conduit Entry Dual 3/4" NPT female entry
 Electrical Connections Terminal block
 Housing Material Glass-reinforced polyester
 Dimensions 9.52 (241.8) x 8.02 (203.7)W x 8.12 (206.2)D; inches (mm)
 Net Weight 13353: 6.6 lbs
 13363 /13373: 7.3 lbs

Environmental

Temperature Range -20° C to +60° C
 Weatherproof Rating Rainproof
 Humidity 95% non-condensing

Power Requirements

Voltage (V dc) 12.6 min./13.8 typ./15 max.
 Current Draw 100 mA/sleep mode to 875mA/8W output

Model BB133 Battery Back-up Kit

Voltage 12 V dc
 Capacity 2.8 Ah
 Battery Life 120 minutes at full output

Model XB001 External Long-Life Battery Kit (with 40201-008 battery)

Voltage 12 V dc
 Capacity 18 Ah
 Battery Life 13 hours at full output

RF Module

General

Frequency Range VHF: 154-174 MHz
 UHF: 450-470 MHz
 Antenna Impedance 50 Ohms
 Operating Voltage 9-18 V dc, 12 V dc nominal
 Encoder/Decoder CTCSS/CDCSS

Receiver (measurement procedures made per ANSI/TIA/EIA-603)

Sensitivity (12 dB SINAD), UHF and VHF @ 25KHz spacing 0.28 µV
 @ 12.5KHz spacing 0.30µV
 Intermodulation >60 dB
 Spurious Rejection (100KHz-4GHz) >60 dB

Approvals

FCC Identifier VHF: AIERT 17-142
 UHF: AIERT 17-442
 FCC Compliance Part 90

VHF Antenna (Helical)

Mounting BNC
 Impedance 50 Ohms

UHF Antenna (Helical)

Mounting BNC
 Impedance 50 Ohms

Speaker Models	Accessories	Accessories Continued:
13353 Addressable Amplified Speaker, 600-Ohm input, 12 V dc	BB133 Battery Back-up Kit	230-001: Pole Mounting Kit for XB001
13363 Addressable Amplified Speaker, VHF, 154-174 MHz, 12 V dc	XB001 External Weatherproof Long-life Battery Kit	12506-001: L-Pad Volume Control
	SPK200: Solar Interface Panel Kit (Complete with charge regulator)	GTRFP6432-006: Free-standing Tripod
	GTRFP7784-108: Solar Panel, 30 Watt	TPD001: Tripod Mounting Kit
	231-002: Pole Mounting Kit for Speakers	XAC4000B: Programming Bundle Flash Drive
13373 Addressable Amplified Speaker, UHF, 450-470 MHz, 12 V dc	190-002PS: WPF Power Supply Kit, 15 V dc	XAC0004A: Programming Cable



Toll Free: 1 (800) 492-1212 Tel: (610) 777-1374
 Fax: (610) 796-5954 www.gai-tronics.com

