

Features

- Provides Amplified Audio Signal to 1-4 Stanchion Broadcast Speakers in 234SBA Stanchion Broadcast Assembly or 234SBM Stanchion Broadcast Module
- Hard-wired (600 Ohm) and RF (VHF/UHF) Audio Delivery to Amplifier
- Control Output for Strobe or Peripheral Equipment Activation
- Generic or Selective Operation
- Addressable Via DTMF or 2-Tone Addresses (up to 8)
- Remote Volume Control Via DTMF Signaling
- Trickle-Charge Circuit for Battery Back-Up
- High-Efficiency Class D Amplifier Delivers up to 10-Watt Output
- Requires 120/230 V ac, 50/60 Hz Power
- Mounts to No. 12510-002 or 12510-003 Stanchion Access Panel
- PC Programmable Using CARD Suite Programming Software



The **10458-10x series Electronics Paging Module** is the heart of each GAI-Tronics Stanchion Broadcast product. This device receives the broadcast audio, via 600 Ohm telephone pair, RF frequency, or both, and provides high-efficiency amplification for speaker broadcasts. Its powerful output is capable of generating a greater than 110dB SPL output from each speaker, measured at 1 meter on axis.

The module conveniently mounts on the access panel that installs at the base of the stanchion, allowing easy access for installation and service. All field wire terminations are made at the Paging Module.

The 10458-10x can be programmed for two different modes of operation; Generic or Selective. Generic operation provides common broadcasting of any received signal. Selective operation requires not only the appropriate audio signal, but also requires a DTMF or 2-Tone address for activation. Each unit will accept up to 8 different addresses allowing access of each individual unit, multiple zones, and/or all call.

Programmable output control and battery trickle charge are standard features of the Paging Module.

Note: The 10458-10x is ordered as part of a 234SBA Stanchion Broadcast Assembly or 234SBM Stanchion Broadcast Module. It should be ordered separately only for spare part purposes.

Available Models

Part No.	Description
10458-101	Hardwired 600-ohm audio input
10458-102	Hardwired 600-ohm input and/or VHF radio receiver input (154–174 MHz)
10458-103	Hardwired 600-ohm input and/or UHF radio receiver input (450–470 MHz)

Specifications

Power Requirements

AC Power Supply

Input voltage	120/230 V ac (nominal), 50/60 Hz
Power factor @ nominal 120 V ac	0.5
Current Draw	@ 120 V ac = 1.10 Amperes @ 230 V ac = 0.65 Amperes

Battery Backup

Voltage	12 V dc
Minimum Capacity	2.8 Ah
Battery life	1 hour at full output

Mechanical

Physical dimensions	4.5 W × 7 D × 7.63 H inches (0.11 W × 0.18 D × 0.19 H m)
Construction/finish	0.62 inch thick aluminum
Termination connections	Screw-type terminal blocks

Shipping Weight

Model 10458-101	2.5 lbs. (1.13 kg)
Models 10458-102 and -103	3.0 lbs. (1.36 kg)

Control Output

Type	Opto-coupled solid state relay
Current Rating	100 mA

Environmental

Temperature range	-4° F to +140° F (-20° C to +60° C)
Humidity	95% non-condensing

Amplifier

Input impedance	600 Ω +/-10% with 600 Ω setting 15 kΩ minimum with 15 kΩ setting
Minimum input level for rated output	0.7 Vrms
Output power	4 mW to 8 W (default 16 mW)
Maximum sound pressure level (SPL)	110 dB SPL at 1 meter (when used with no. 12538-201 Speaker Package)
Frequency response	250–6,500 Hz, +0/-3 dB ref. to 1 kHz
Distortion	<1% THD @1 kHz

RF Module (Models 10458-102 and -103 only)

General

Frequency range	VHF: 154–174 MHz; UHF: 450–470 MHz
Antenna impedance	50 Ω
Antenna connector	BNC
Operating voltage	9–18 V dc, 12 V dc nominal
Decoder	CTCSS/CDCSS

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

Sensitivity (12 dB SINAD)	0.25 μV
Inter-modulation	60 dB
Spurious response	55 dB
Audio output	900 mVrms, 3.5 kHz deviated signal

Approvals

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

Accessories / Programming / System Components

ACC2500	Audio Control Center	GTG08067	Audio Messenger Interface
234SBA	Stanchion Broadcast Assembly	234SBM	Stanchion Broadcast Module
13352	Addressable Amplified Speaker, 600 Ohm	13362/13372	Addressable Amplified Speaker, VHF/UHF
12538-201	Speaker Package	XAC1000A	CARD Suite Programming Software
XAC0004A	Programming Cable	19101-024	RF Module Programming Kit

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GAI-Tronics® USA (Corporate) Toll Free: 1 (800) 492-1212 Tel: (610) 777-1374 Fax: (610) 796-5954 www.gai-tronics.com
 GAI-Tronics® UK Tel: +44 (0)1283 500500 Fax: +44 (0)1283 500400 www.gai-tronics.co.uk
 GAI-Tronics® S.r.l - Italy Tel: +39 02 4588801 Fax: +39 02 93663110 www.gai-tronics.it
 GAI-Tronics® Malaysia Tel: +60-3-8945-4035 / 8945-7348 Fax: +60-3-8945-4675 www.gai-tronics.com
 GAI-Tronics® Austdac - Australia Tel: 011-61-28-851-5000 Fax: 011-61-29-899-2490 www.austdac.com.au

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The policy of GAI-Tronics is one of continuous improvement; therefore the company reserves the right to change specifications without notice.