



**GAI-TRONICS® CORPORATION**  
A HUBBELL COMPANY

# Model 709-901 SmartSeries Handset/Speaker Amplifier

## General Information

This data sheet applies to the GAI-Tronics Model 709-901 SmartSeries Handset/Speaker Amplifier.

The Model 709-901 SmartSeries Handset/Speaker Amplifier is designed to provide an intelligent handset for use on the GAI-Tronics multi-party system cable in either a standard Page/Party® system or an ADVANCE system.

**NOTE: It is designed for use with SmartSeries hazardous area equipment only.**

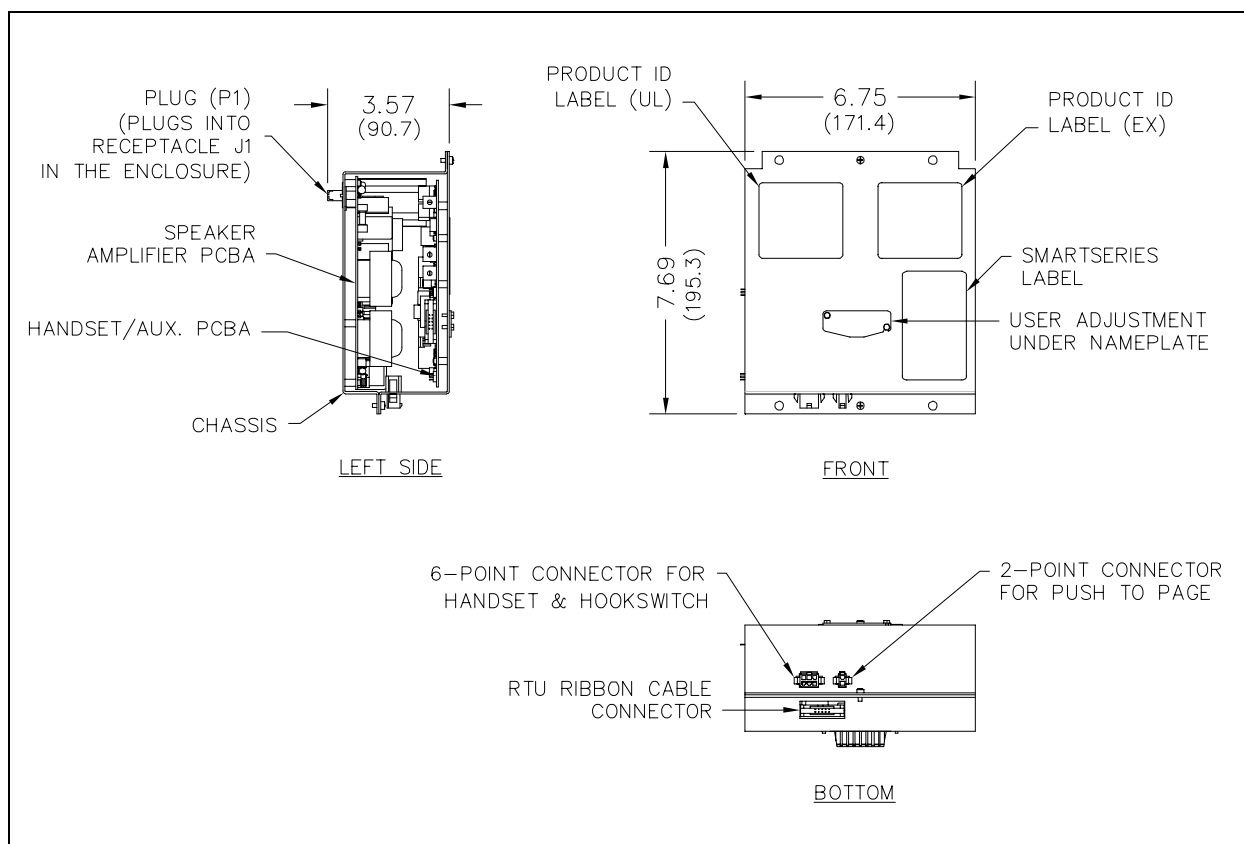


Figure 1. Model 709-901 SmartSeries Handset/Speaker Amplifier Outline



# Specifications

## Electrical

Supply voltage..... 90 to 140 V ac (120 V ac nominal), 50/60 Hz

Power consumed @ nominal ac ..... Zero/maximum signal (12 watts): 15 VA, 9 watts/59 VA, 32 watts

## Speaker Amplifier

Output..... 12 watts minimum, with nominal supply voltage

Frequency response ..... 350 to 6,500 Hz, +0/-3 dB, ref. to 1 kHz

Distortion ..... 1% maximum THD @ 1 kHz, 12 watts

## SmartVolume™

Monitor range (low gain)..... 62 to 100 dB SPL

Offset (above ambient) User Level Adjustment..... 0 to 48 dB

Minimum User Level Adjustment..... Off; 85 to 125 dB SPL

## Handset Amplifier

Output..... 1.5 V<sub>RMS</sub> nominal into 33-ohm load

Frequency response with 5 mV<sub>RMS</sub> input (AGC on)..... 350 to 6,500 Hz, +0/-3 dB ref. to 1 kHz

Distortion ..... 1.5% maximum THD @ 1 kHz

## Mechanical

Dimensions ..... 7.69 H × 6.75 W × 3.57 D inches (195.3 × 171.4 × 90.7 mm), overall

## Environmental

Temperature range.....-22° F to +158° F (-30° C to +70° C), operating and storage

Humidity .....95%, non-condensing

## Approvals

NRTL listed ..... Suitable for use in hazardous locations Class I, Div. 1, Groups B, C, D;  
(USA and Canada) Class II, Div. 1, Groups F, G;

Class III, Div. 1

when used with listed Model 7085-004-UL, 708-001-UL, 7085-001-UL  
7085-005-UL, or 707-001-UL Enclosure

ATEX certified..... II 2 G Ex d [ib] IIB + H<sub>2</sub> T6

when installed in a Model 7085-004-EX, 708-001-EX, 7085-001-EX,  
7085-005-EX, 707-001-EX, 707-001-EX-F07045, 708-001-EX-F07048,  
7085-001-EX-F07044, 7085-004-EX-F07049, or 7085-005-EX-F07050 Enclosure

Applicable standards ..... EN 50014:1997, A1+A2:1999, EN50020:2002,  
EN 60079-0:2006 and EN 60079-1:2004

CE Mark .....Complies with Low Voltage Directive 73/23/EEC, and the  
EMC Directive 89/336/EEC amended by the Directive 93/68/EEC.

Certificate No. DEMKO 05 ATEX 0526157X

Notified Body Id No. 0539

UL International DEMKO A/S

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