GAI-TRONICS®
A HUBBELL COMPANY

Model 727-001 Desk Set Access Panel

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General Information

The Model 727-001 Access Panel is a component of the SmartSeries® ADVANCE system that can be used for public address, communication, and emergency notification.

Product Overview

The Model 727-001 Desk Set Access Panel is used to communicate, initiate alarms, and to control alarm and paging destinations. It is equipped with a 120 V ac/240 V ac desktop power supply that allows the access panel to be used in almost all installations without requiring additional line transformers.

The Model 727-001 Access Panel consists of the following main components:

- 27 configurable push buttons
- LAMP TEST push button
- 24 configurable LEDs
- handset with pressbar
- speaker with volume control

Twenty-four of the 27 push buttons contain bi-color LED lamps that can be configured to provide system status information.

The panel provides a handset equipped with an integral pressbar. The handset is used to make page announcements and to hold two-way party line conversations. An internal speaker allows page audio monitoring. The access panel includes a volume control for the internal speaker.

NOTE: The speaker is disabled when the handset is in use.

The function of each of the 27 push buttons and 24 available LEDs is configurable using the GAI-Tronics ADVANCE system software.
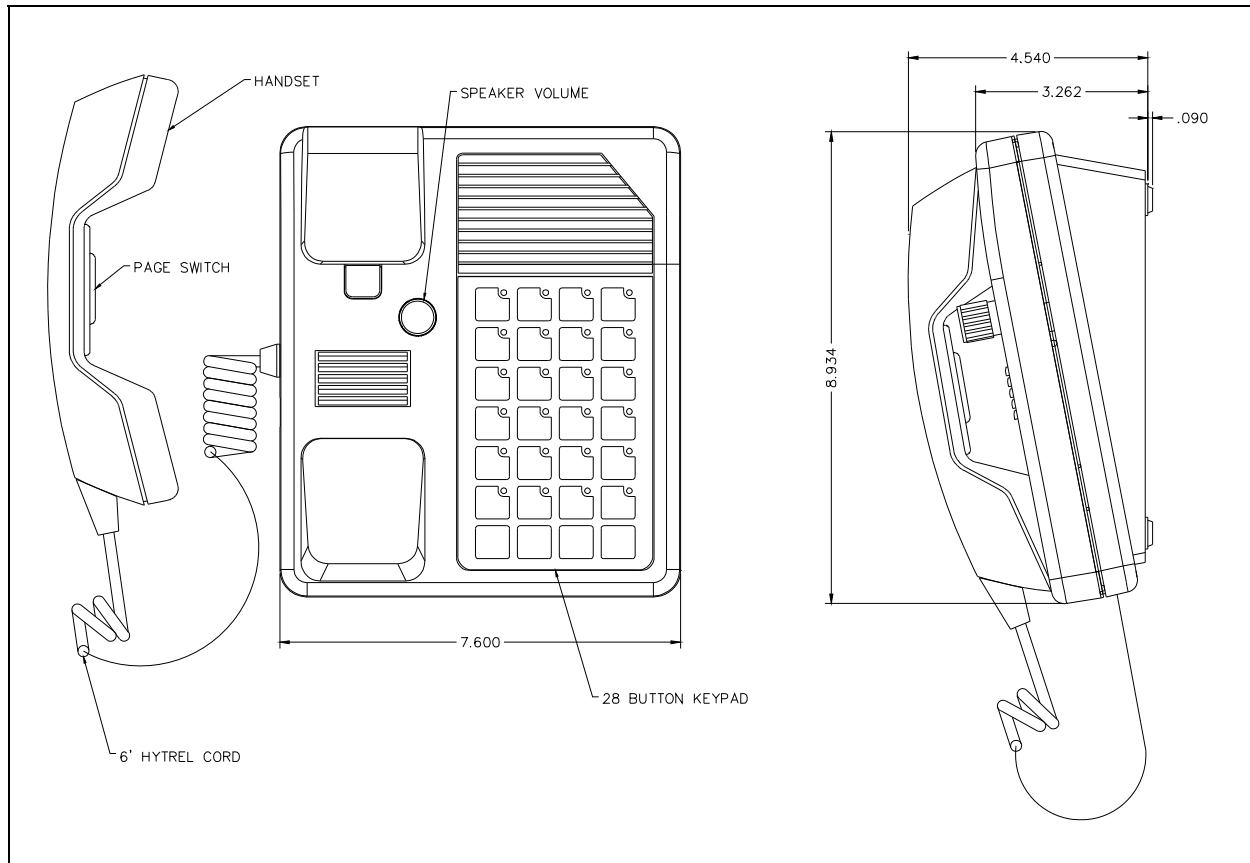
Hardware

Figure 1. Model 727-001 Desk Set Access Panel

Optional Accessories

Model Number	Description
12576-500	Desk Set Access Panel Docking Station with VFD
13610-002	Desk-top Access Panel Desk Mic

Interfaces

A 3-conductor ac power cord is included with the access panel. One end of the power cord is connected to the 3-prong connector located on the back of the power supply, while the other end is plugged into a grounded ac electrical outlet.

The compatible ac input voltages are 120 V ac/240 V ac (auto-ranging), 50/60 Hz. The 5-pin DIN plug from the power supply is connected to the 5-pin DIN jack on the rear of the access panel (see Figure 3).

The data and audio connection to the system control unit is provided by an RJ-45 jack on the rear of the access panel (see Figure 2). Make the following physical connections to the RJ-45 jack:

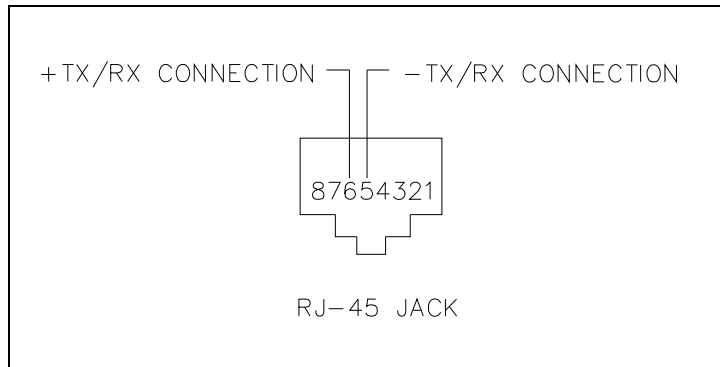| Pin	Connection
1	No connection
2	No connection
3	No connection
4	No connection
5	− TX/RX connection
6	+ TX/RX connection
7	No connection
8	No connection

Figure 2. Audio/Data Connection

The 5-pin XLR jack is used for connection of an optional desk mic (see Figure 3).
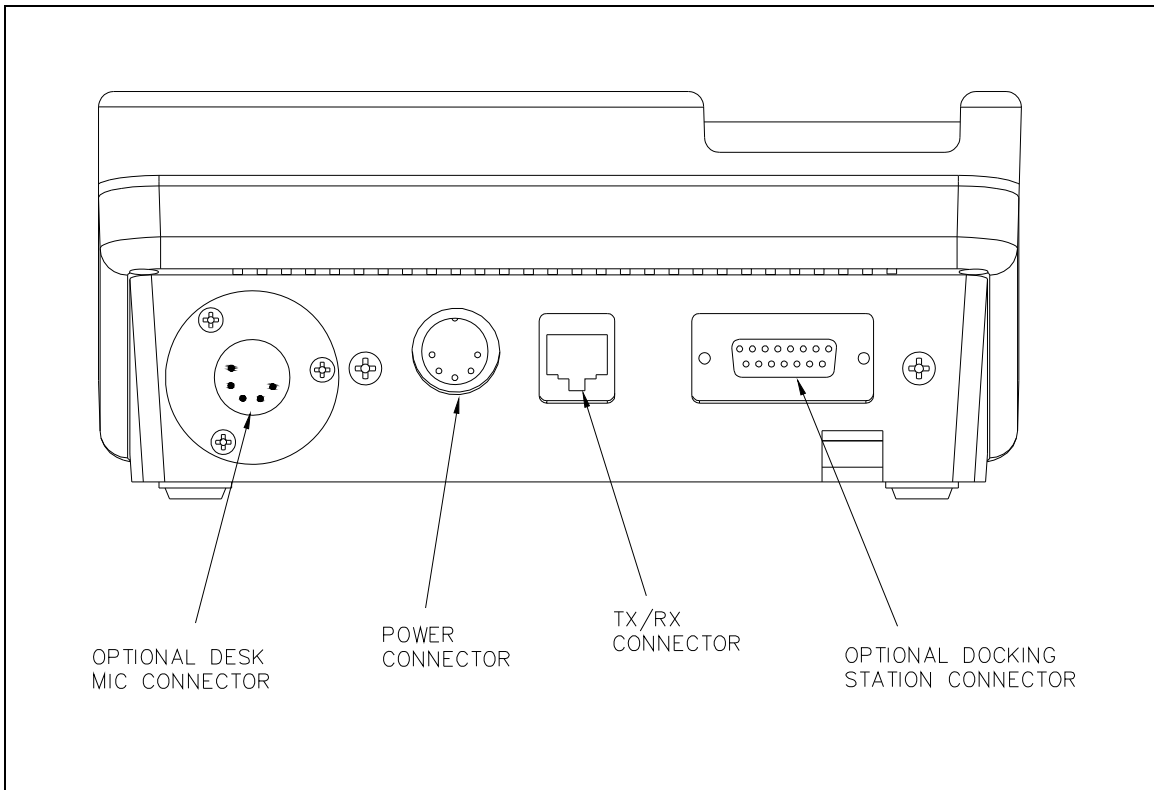

Figure 3. Model 727-001 Access Panel Typical Connections (Rear View)

The DB-15 connector on the rear of the access panel is used for connecting the desk set to the optional docking station. Connect the power and audio/data cables to the rear of the docking station when using the optional docking station.

Installation

⚠️ **WARNING** ⚠️ —Please adhere to all safety warnings and the operating instructions on the unit and in this installation manual.

- Disconnect power before servicing.

- Avoid servicing the unit during electrical storms.

- Do not touch uninsulated wires.

Mounting

1. Remove the access panel from its protective packing.

2. Position the access panel on a sturdy horizontal surface in a convenient location where the handset and push buttons are readily accessible.

Data Connection

Connect the RJ-11 data cable from the RJ-45 jack on the rear of the unit to the API connecting block located in the ADVANCE control cabinet.

Use a twisted-pair cable terminated on one end with either an RJ-11 or RJ-45 plug if the 7-foot cable is not long enough. This connection is not polarity-sensitive and may be wired in either orientation.

NOTE: This assembly includes a 7-foot RJ-11 data cable.

Power

Connect the 3-conductor ac power cord provided with the access panel as follows:

1. Plug one end of the power cord into the 3-prong power connector at the rear of the power supply.

2. Plug the 5-pin DIN connector of the power supply into the 5-pin DIN jack on the rear of the access panel.

3. Plug the power supply cord into a grounded ac electrical outlet.

   The access panel does not contain an integral power switch and will power up immediately upon application of power.

Keypad Labels

The keypad on the front panel uses *slide-in* labels to identify the individual switch functions. Two sheets of blank labels are included with the access panel (GAI-Tronics Part No. 14919-113).

The labels are printed by inserting the blank sheets into any laser or inkjet printer. A Microsoft® Word document (Version 97) is available to create custom labels. It is available for download at www.gai-tronics.com.

1. Hover the mouse pointer over the RESOURCES tab at the top of the page.

2. Click the MANUALS link under USEFUL LINKS.

3. Click the IOMS/USER GUIDES link on the MANUALS page.

4. Scroll down to document 42004-728L2E

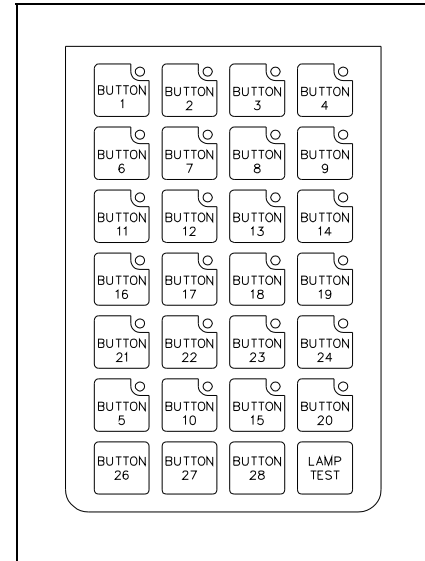5. Click the Access Panel Label Template link.

Figure 4. Keypad Button Layout

NOTES:

• To modify the text size and color of the text in the blocks, you must *unprotect* the document as outlined below. Do not re-protect the document; otherwise, all the information that was typed in will be lost.

• Before printing on the included slide-in labels, print a test page on plain paper to verify that the positioning, orientation, and information are correct. Check the printed paper by laying it behind the included slide-in label sheet to verify that the print is in the proper location. Because printers vary, you may need to adjust the margins in the page setup to center the printed text within the perforated strips.

Label Installation

1. Separate the slide-in labels along the perforated lines on the sheet.

2. Fold the tab at the end of the slide-in label so that it is perpendicular to the rest of the label.

3. Slide the label into the appropriate slot opening located at the top of each of the button columns.

4. Repeat the above steps for the remaining labels.

Label Removal

1. Locate the tab at the top of the label and pull it out from behind.

2. Slide the label out using the tab that has been exposed.

Button Layout

All of the buttons and the 24 LEDs are available for use if the unit is used without a docking station.

For units being used with a docking station:

• Configure the ACK/NEXT button as button #26 and LED #20.

• Configure the PREV button as button #27.

NOTE: LED #20 on the desk-set keypad will flash when the ACK/NEXT button on the docking station is flashing, unless it is disabled.

Configurable Push Buttons

The 27 configurable push buttons can be configured for the following functions:

- initiating voice pages and alarms
- selecting zones
- routing voice pages and alarms
- selecting and resetting alarm and fault condition messages
- acknowledging system status
- selecting party lines
- activating relay groups

Operation

Operation of this assembly is highly dependent on the attached system's software configuration. The software is factory-created and subsequently downloaded to the system control unit via an external PC at system start-up.

This access panel offers the standard features described below in addition to other configurable features. The standard features include a handset used for page and party functions, and an integral speaker to monitor page audio.

Handset Communications

The handset is used for both page and party communication. Lifting the handset from the cradle creates an off-hook condition. In a normal configuration, lifting the handset causes it to be connected to a party line.

Speaker and Speaker Muting

The access panel's integral speaker provides the capability of monitoring the system's page activity. The speaker's volume can be adjusted using the volume adjustment knob.

NOTE: The speaker is disabled when the handset is in use.

Maintenance

Servicing Guidelines

1. Notify plant personnel of a system shutdown prior to servicing the unit.
2. Disconnect power before connecting external wiring or installing or removing the access panel.

Troubleshooting

Symptom	Action
access panel not functional (No push buttons detected, no LED lamps active, and handset is not functioning.)	• Verify ac power is applied to power supply. Verify the ac power cord is plugged in and that the ac outlet is active. • Verify that the LED is lit on the desktop power supply. • Call for service of the access panel.
LEDs blinking and sounder is beeping	Verify that the data cable is properly connected between the access panel and the control unit.
no configurable push buttons detected	• Verify that the data cable is properly connected between the access panel and the control unit. • Call for service of the access panel.
some configurable push buttons not detected	Call for service of the access panel.
LED lamps of all configured push buttons do not activate	Call for service of the access panel.
some LED lamps of configured push buttons do not activate	Call for service of the access panel.
speaker not functional	• Ensure that the speaker volume control is not turned down. • Call for service of the access panel.
handset not functioning properly	Call for service of the access panel.

Replacement Parts

Model Number	Description
14919-113	Keypad Replacement Slide-In Labels (set of 4)
51035-013	Replacement 28-Button Keypad
10119-001	Replacement Handset
61002-007	Replacement Line Cord

Specifications

Electrical

Input voltage .... 120 V ac/240 V ac
auto-ranging

Input frequency .... 50/60 Hz

Input current draw (with lamp test depressed).. 60 mA @ 120 V ac, nominal
200 mA @ 120 V ac, maximum

Environmental

Operating temperature range..+32 °F to +120 °F (0 °C to +49 °C)

Relative humidity.. non-condensing 85% maximum

Mechanical

Unit dimensions .... 7.60 W × 8.93 L × 4.63 D in (193.0 × 226.9 × 117.6 mm)

Unit weight.. 4.6 lb

Handset material ....black ABS

Handset microphone .... dynamic

Handset receiver... dynamic

Handset cord ....Hytrel, 6 ft (1.8 m) when extended

Handset cradle... fixed, built-in off-hook detector

External controls .... press-to-page switch
27 configurable push buttons
lamp test button
24 bi-color LEDs
speaker volume control

Reference Material

Reference to Assembly/Model Drawings

Published by	Title	GAI-Tronics Ref. No.
GAI-Tronics	Model 727-001 Desk Set Access Panel Outline Drawing	73058

Warranty

Equipment. GAI-Tronics warrants for a period of one (1) year from the date of shipment, that any GAI-Tronics equipment supplied hereunder shall be free of defects in material and workmanship, shall comply with the then-current product specifications and product literature, and if applicable, shall be fit for the purpose specified in the agreed-upon quotation or proposal document. If (a) Seller's goods prove to be defective in workmanship and/or material under normal and proper usage, or unfit for the purpose specified and agreed upon, and (b) Buyer's claim is made within the warranty period set forth above, Buyer may return such goods to GAI-Tronics' nearest depot repair facility, freight prepaid, at which time they will be repaired or replaced, at Seller's option, without charge to Buyer. Repair or replacement shall be Buyer's sole and exclusive remedy. The warranty period on any repaired or replacement equipment shall be the greater of the ninety (90) day repair warranty or one (1) year from the date the original equipment was shipped. In no event shall GAI-Tronics warranty obligations with respect to equipment exceed 100% of the total cost of the equipment supplied hereunder. Buyer may also be entitled to the manufacturer's warranty on any third-party goods supplied by GAI-Tronics hereunder. The applicability of any such third-party warranty will be determined by GAI-Tronics.

Services. Any services GAI-Tronics provides hereunder, whether directly or through subcontractors, shall be performed in accordance with the standard of care with which such services are normally provided in the industry. If the services fail to meet the applicable industry standard, GAI-Tronics will re-perform such services at no cost to buyer to correct said deficiency to Company's satisfaction provided any and all issues are identified prior to the demobilization of the Contractor's personnel from the work site. Re-performance of services shall be Buyer's sole and exclusive remedy, and in no event shall GAI-Tronics warranty obligations with respect to services exceed 100% of the total cost of the services provided hereunder.

Warranty Periods. Every claim by Buyer alleging a defect in the goods and/or services provided hereunder shall be deemed waived unless such claim is made in writing within the applicable warranty periods as set forth above. Provided, however, that if the defect complained of is latent and not discoverable within the above warranty periods, every claim arising on account of such latent defect shall be deemed waived unless it is made in writing within a reasonable time after such latent defect is or should have been discovered by Buyer.

Limitations / Exclusions. The warranties herein shall not apply to, and GAI-Tronics shall not be responsible for, any damage to the goods or failure of the services supplied hereunder, to the extent caused by Buyer's neglect, failure to follow operational and maintenance procedures provided with the equipment, or the use of technicians not specifically authorized by GAI-Tronics to maintain or service the equipment. THE WARRANTIES AND REMEDIES CONTAINED HEREIN ARE IN LIEU OF AND EXCLUDE ALL OTHER WARRANTIES AND REMEDIES, WHETHER EXPRESS OR IMPLIED BY OPERATION OF LAW OR OTHERWISE, INCLUDING ANY WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

Return Policy

If the equipment requires service, contact your Regional Service Center for a return authorization number (RA#). Equipment should be shipped prepaid to GAI-Tronics with a return authorization number and a purchase order number. If the equipment is under warranty, repairs or a replacement will be made in accordance with the warranty policy set forth above. Please include a written explanation of all defects to assist our technicians in their troubleshooting efforts.

Call 800-492-1212 (inside the USA) or 610-777-1374 (outside the USA) for help identifying the Regional Service Center closest to you.