

### Features

- **Multicast VoIP Technology**
- **Serverless Architecture**
- **Full Duplex Communication**
- **Five Party Lines**
- **AC (120/230v) and DC (24v) Versions**
- **Efficient 30 Watt Class D Amplifier**
- **Ambient Level Sensing (ALS)**
- **Remote Terminal Unit (RTU) Operation for Input/Output Applications**
- **Remote Monitoring**

### Options

- **Five Paging Zones**
- **Hazardous Area Approvals**
- **Auxiliary Jack for Headset Operation**
- **PVC or Hytrel® Handset Cords**
- **CAT5/5E or Fiber Optic Network Connection**



SP2 is GAI-TRONICS' most advanced paging and intercom system yet. Combining the simplicity of "press to page, release to party" operation with cutting-edge multicast Voice over Internet Protocol (VoIP) technology, SP2 is capable of providing virtually instant communication in the most demanding of environments.

SP2 is a serverless system. While other systems rely on servers to route calls and administrate the system, SP2 uses multicast technology, bypassing the need for servers and resulting in a number of benefits.

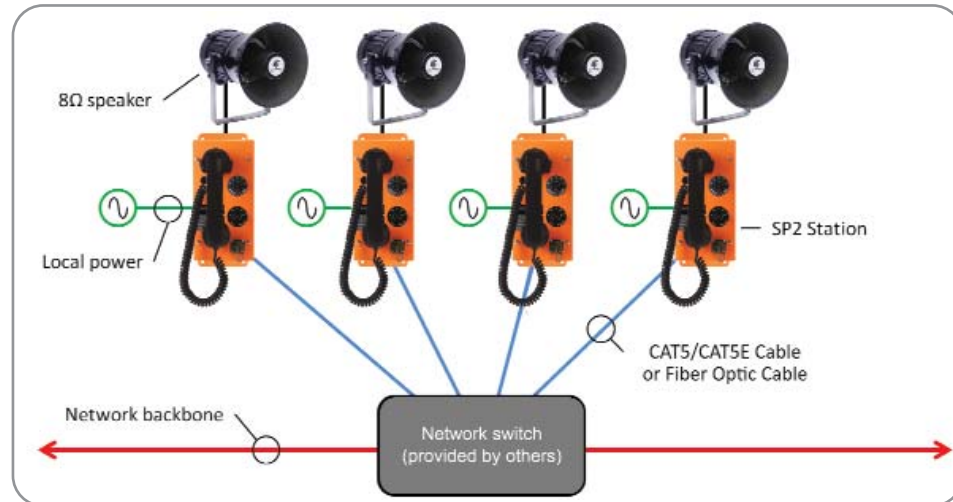
SP2 is fast. Since no server is needed to set up call routing and conference bridges, SP2 can provide immediate one way paging and full-duplex "party line" communication.

SP2 is simple. No keypad, no extensions to memorize. Simply lift the handset, select a paging zone, squeeze the handset pressbar and make an announcement over the system speakers. Release the pressbar and talk on one of the five available party lines.

SP2 is reliable. There are no servers to fail or need updates. SP2 will also notify you of any problems via e-mail.

SP2 is flexible. Every SP2 station is capable of being configured with unique characteristics, including priority, zone destinations, volume levels and so on. Indoor, weatherproof and hazardous area stations with world-wide approvals are available, ensuring that SP2 can be used everywhere it's needed.

## Typical Block Diagram



## Indoor SP2 Part Numbers

	Indoor Wall-Mount	5-Party Lines	Station Type	Connection/ Control	Handset	Approval	Finish	Options					
9	1	5	—	X	X	X	X	X	0				
		AC Handset/Speaker AC Handset/Speaker/Aux DC Handset/Speaker DC Handset/Speaker/Aux	1 2 5 6	Ethernet with RTU Ethernet with ALT Page and RTU Ethernet with All Call and RTU Fiber with RTU** Fiber with Alt Page and RTU** Fiber with All Call and RTU**	2 2 4 6 B D F	6' PVC 15' PVC 25' PVC 6' Hytrel® 15' Hytrel® 25' Hytrel®	1 2 3 4 5 6	CE UL CI D2	B S	Orange Gray	1 2	No Options Trop TR 70/100V* 70/100V*, TR	0 A R S

**Note:**

\*70/100V option is only available on indoor stations

\*\*Fiber optic stations require a suitable SFP module. Contact GAI-TRONICS for more information.

### Example:

An indoor wall-mount, AC-powered SP2 station with a 6' PVC handset cord, UL Class I, Div. 2 approvals, orange paint with no options selected, is part number **915-141D100**.

## Specifications

## Electrical

AC Supply Voltage .....	120/230 V ac
Input frequency range .....	50/60 Hz
DC Supply Voltage .....	24 V dc
Network Requirements .....	100Base T network with IGMP

## Handset

Microphone.....	Dynamic, noise-cancelling
Microphone Noise Discrimination .....	18dB @ 250Hz
Receiver.....	Dynamic, hearing aid compatible
Material .....	ABS
External Control .....	Push-to-page handset pressbar

## Speaker Amplifier

Max Output ..... 30W into 8Ω load

## Mechanical

Construction ..... 16 gauge cold-rolled steel  
Finish ..... Safety orange powder coating  
Dimensions (overall) ..... 12.5 H x 5.25 W x 7.34 D inches  
  (317.5 x 133.4 x 188.4 mm)  
Temperature range ..... -22° F to +140° F (-30° C to +60° C)  
Relative Humidity..... 95%, non-condensing

## Network Connection

CAT5/5E Stations .....	Screw Terminals
Fiber Optic Station .....	Standard SFP Port

## Approvals

CE Mark .....  
NRTL Listed (USA and Canada) Hazardous locations:  
Class I, Division 2, Groups A, B, C, D