



VolP Multicast Paging and Intercom



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. There's 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 update. 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 worldwide approvals are available, ensuring that SP2 can be used everywhere it's needed



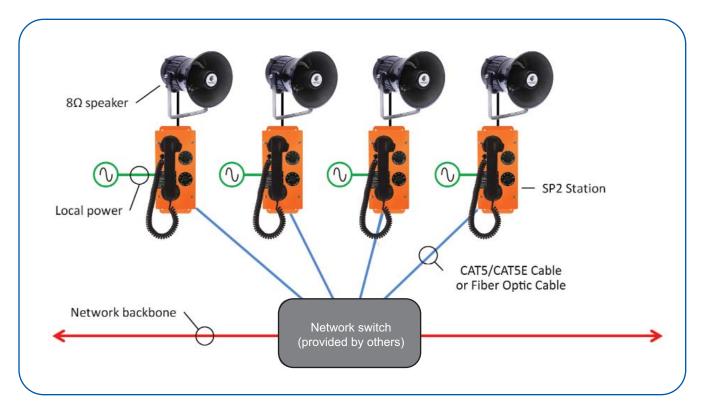








SP2 Architecture



SP2 is simply wired to the nearest network switch using CAT5/CAT5E Ethernet cable, or Fiber Optic Cable. Local power is supplied to each station either as a separate power cable or contained in a hybrid power / network cable. Simple screw terminals within the station make field wiring possible without the need for any special tools.

Since SP2 is a serverless system, it can easily be integrated into an existing IP network. This can significantly reduce the installation cost of SP2 and simplify plant data architecture.

All SP2 stations feature a 30W, class D speaker amplifier. This amplifier is capable of producing paging output of up to 126dB when matched with GAI-TRONICS' 30W horn / driver combination.

SP2 stations can be supplied with a handset, for paging and intercom, or without a handset for where only paging coverage is needed.



SP2 Features and Controls

SP2 was designed with the user in mind. SP2 features simple controls that are easily operable while wearing gloves. A handset with a high-output receiver and noise-cancelling microphone ensures clear communication in high noise areas.

Rugged Construction

Reliable communications in any environment High visibility orange finish

Receiver

Hearing aid compatible

Universal AC Power

Worldwide operation

Party Line Selector Switch

Simple conference calls

Paging Pressbar

One-handed operation

Optional Page Zone Selector Switch

Configurable zoning for every SP2 station

Dynamic Microphone

Built-in noise cancellation ensures clear communication in high noise environments

30 Watt Speaker Amplifier with Ambient

Noise Compensation Clear sound in any environment





SP2 Connections

Each SP2 station can be expanded with several peripheral devices.





SP2 Series Variants

SP2 stations are available with many different mounting and environmental options, allowing SP2 to be used in every area of the facility.

Indoor Wall-mount Stations



Weatherproof Wall-mount Stations



Indoor Remote-mounted Subset Stations



Explosion-proof Stations



Zone 2 Stations





Technical Data - SP2 Series Specifications

Electrical

Supply Voltage	120/230 V ac
Max Power Consumption	400mA / 48.0VA @ 120 Vac
Input Frequency Range	50/60 H
Network Requirements	100 BaseT network with IGMP

Handset

Microphone	Dynamic, noise-cancelling
Microphone Noise Discri	mination 18dB @ 250Hz
Receiver	Dynamic, hearing aid compatible
External Control	Push-to-page handset pressbar

Handset Amplifier

Output Level (compression controlled)1.5 $V_{ extsf{RMS}}$ nomina
Frequency Response 250-6,500 Hz, +0/-3dB ref. to 1KHz
Distortion < 1.5% THD @ 1KHz (below compression level
Receiver Level

Network Connection

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

Speaker Amplifier

Speaker Amplifier	
Max Output	. 30W into 8Ω load with 1.5VRMS input
Frequency Response:	
Distortion	<1% THD @ 1KHz to 24W
	<3% THD @ 1KHz to 30W

Indoor Wall-mount Stations



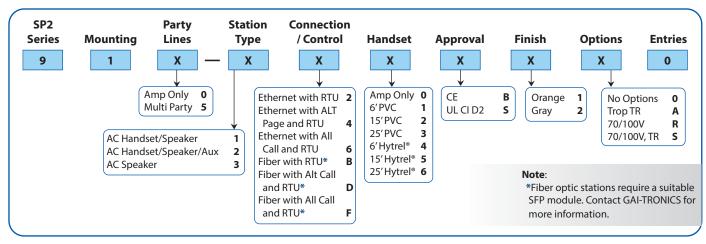
Mechanical

Construction	16 gauge cold-rolled steel
Finish	Safety orange powder coating
Connections	Screw-type barrier terminal blocks
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

Approvals

Electical Safety	
•	
	and the EMS Directive 89/336/EEC amended by the Directive 93/68/EEC
NRTL Listed	Hazardous locations, Class I, Div. 2, (USA and Canada)
	Groups A, B, C, D

Indoor Wall-mount SP2 Part Numbers*:



^{*} Items marked as "X" are configurable. Not all option combinations are possible – please contact GAI-TRONICS for assistance.



Indoor Remote-mounted Subset Stations

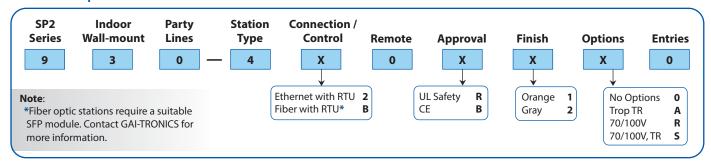
Remote Amplifier



Mechanical	
	16 gauge cold-rolled steel
Finish	Safety orange powder coating
Connections	Screw-type barrier terminal blocks
	DB25 connection to subset
Dimensions (overall)	12.5 H x 5.25 W x 4.37 D inches (317.5 x 133.4 x 111.1 mm)
Temperature range	22°F to +140°F (-30°C to +60°C)
Relative Humidity	95%, non-condensing
Approvals	
	Complies with IEC 60950 and UL 60950
CE Mark	

and the EMS Directive 89/336/EEC amended by the Directive 93/68/EEC

Remote Amplifier SP2 Part Numbers*:



Desktop / Wall-mount Subset

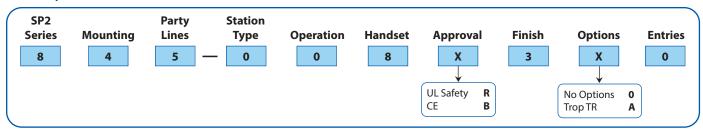


Mechanical

Construction	Black ABS nousing with aluminum front panel
Connections	DB25 connection to remote amplifier
Dimensions (overall)	. 8.94 H x 7.6 W x 4.56 D inches (227.1 x 193 x 115.8 mm)
Temperature range	22°F to +158°F (-30°C to +70°C)
Relative Humidity	95%, non-condensing

Approvals

Desktop / Wall-mounted Subset SP2 Part Numbers*:



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Indoor Remote-mounted Subset Stations - cont.

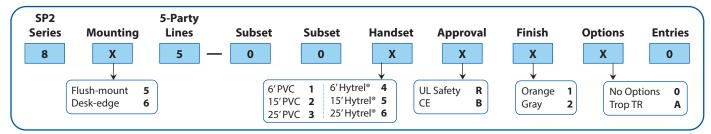
Flush-mount and Deskedge Subsets



Mechanical

Approvals

Flush-mount and Deskedge Subsets SP2 Part Numbers*:



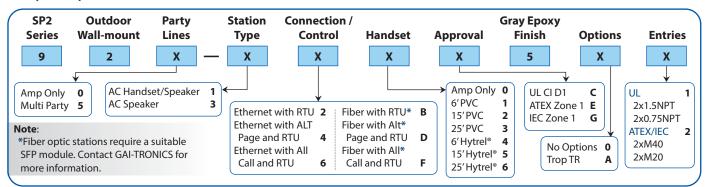
Explosionproof Wall-mount Stations



Mechanical

Approvals

Explosion-proof Wall-mount SP2 Part Numbers*:



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Groups A, B, C, D



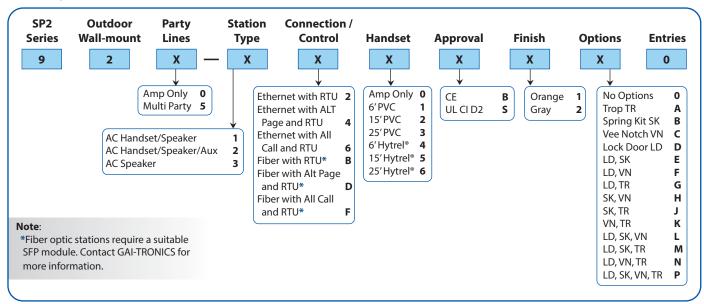
Weatherproof Wall-mount Stations



Mechanical

Construction	Engineered glass-reinforced plastic
Connections	Screw-type barrier terminal blocks
Dimensions (overall)	14.6 H x 10.9 W x 10.5 D inches (371 x 276 x 267 mm)
Temperature range	22°F to +140°F (-30°C to +60°C)
Relative Humidity	95%, non-condensing
Environmental Rating	Type 4X (IP66)
Approvals	
Electical Safety	Complies with IEC 60950 and UL 60950
CE Mark	
and the	e EMS Directive 89/336/EEC amended by the Directive 93/68/EEC

Weatherproof Wall-mount Station SP2 Part Numbers*:



^{*} Items marked as "X" are configurable. Not all option combinations are possible – please contact GAI-TRONICS for assistance.



Accessories

Acoustic Hood - 9/14dB



- 6866-001 Yellow hood 9dB
- 6866-002 Gray hood 9dB
- 6866-003 Yellow hood 14dB
- 6866-004 Gray hood 14dB

Acoustic Hood - 23dB



- 988-60-0002-701 Yellow hood
- 988-60-0002-702 Red hood
- 988-60-0002-703 Orange hood
- 988-60-0002-704 Blue hood

Headset / Extension Cable



- 10401-201 Headset/Microphone
- 10416-103 30' Extension cable with push-to-page switch
- 10416-104 50' Extension cable with push-to-page switch
- 10416-105 8' Extension cable with push-to-page switch

Subset Extension Cable



- 12587-101 25' Subset extension cable with fitted connectors.
- 12587-102 25' Subset extension cable with fitted connectors and wall plate.
- 12587-104 15' Subset extension cable with one fitted and one loose connector.



Contact your sales representative or call our toll-free sales hotline for further information at 1-800-492-1212.

Look to GAI-TRONICS, a leader in the emergency notification industry through its innovative products, uncompromising quality and advanced technology.

Visit us @ www.gai-tronics.com













