

Features

- Fully Compatible with GAI-TRONICS® Page/Party® and ADVANCE/SmartSeries™ Systems
- Full Duplex Communication
- Efficient 30 Watt Class D Amplifier
- AC (120/230V) and DC (24V) Versions

Options

- One or Five Party Lines
- Handset/Amplifier or Amplifier Only Stations
- Remote Volume Level Control (VLC)
- SmartSeries™ Technology
- Ambient Level Sensing (ALS)
- Remote Monitoring
- Remote Terminal Unit (RTU) Operation for Input/Output Applications

ICS is GAI-TRONICS' latest generation of Page/Party® and SmartSeries products, and provides two important plant communication functions in one durable, easy-to-operate package, offering paging, and five line intercom capability. Through the page function individuals can be contacted anywhere in your facility. For further communication, the party line function allows two or more people to converse without being heard over the paging speakers.

ICS is a distributed amplifier system with each station containing a 30W speaker amplifier. Stations/amplifiers are parallel wired, simplifying system design and expansion. Distributed amplifier systems offer major advantages over conventional power amplifier systems. For example, if an amplifier fails in a distributed system, only the associated speaker is inoperable; all other system speakers will continue to broadcast pages.

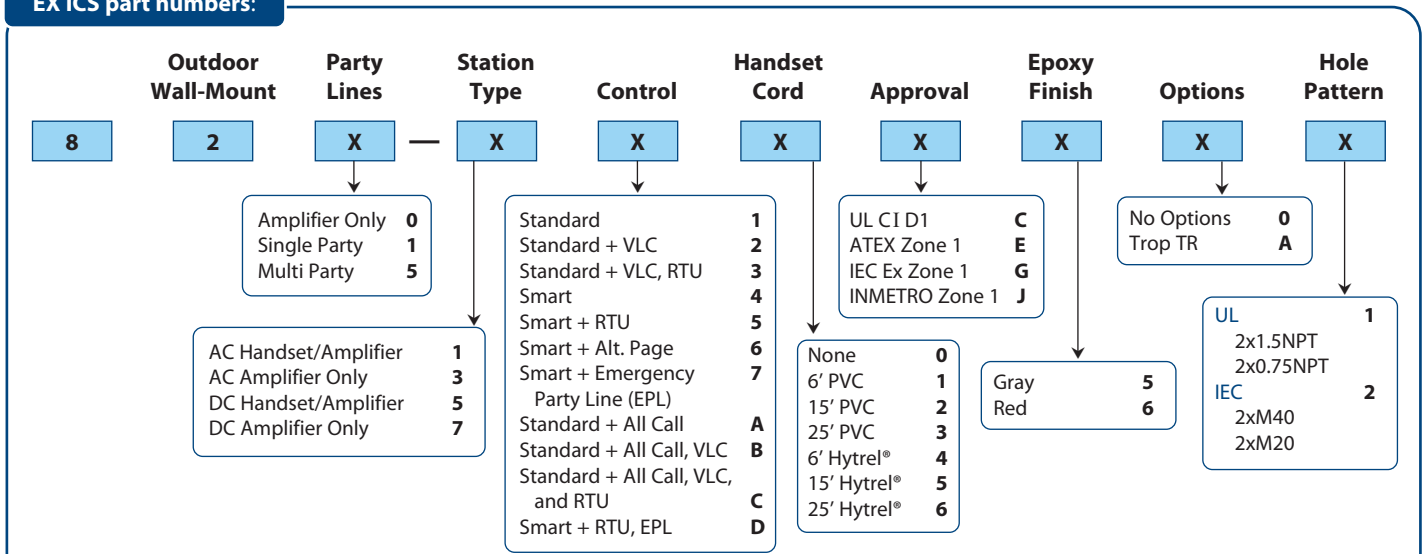


ICS operation is simple; the user lifts the station handset, presses the page pressbar and announces. The responding individual lifts the handset of their nearest station for full duplex communication over the party line. Speaker amplifier versions are available for powering speakers where handset intercom stations are not required.

ICS stations are fully compatible with existing GAI-TRONICS Page/Party® and ADVANCE/SmartSeries stations and systems, with additional features:

- 30 Watt speaker amplifier.
- Field-upgradeable from standard configuration to:
 - Volume Level Control (VLC)
 - SmartSeries™
 - Remote Terminal Unit
- More efficient design requires less power
- Compliance with current and upcoming worldwide approvals.

EX ICS part numbers:



Notes: Not all options may be combined - contact GAI-TRONICS for details.

Example:

An outdoor wall-mount, multi-party, AC-powered handset/speaker amplifier standard ICS station with a 6' PVC handset cord, UL Class I Division 1 approvals, epoxy finish (Gray) and no options will be model **825-111C501**.

Specifications

Electrical

AC Stations

Supply Voltage	120/230 V ac
Max Power Consumption	400mA/48.0VA @ 120 V ac 220mA/50.6VA @ 230 V ac
Input frequency range	50/60 Hz

DC Stations

Supply Voltage	24 V dc
Max Power Consumption	1.95A/46.8W

Handset

Microphone	Dynamic, noise-cancelling
Microphone Noise Discrimination	18dB @ 250Hz
Receiver	Dynamic, hearing aid compatible
Material	ABS

Handset Amplifier

Output Level (compression controlled)	1.5V _{RMS} nominal into 33Ω load.
Frequency Response	250-6,500 Hz, +0/-3dB ref. to 1KHz
Distortion	<1.5% THD @ 1KHz (below compression level)
Receiver Level	200mV _{RMS} nominal

Speaker Amplifier

Max Output	30W into 8Ω load with 1.5V _{RMS} input
Frequency Response	250-6,500 Hz, +0/-3 dB ref. to 1 kHz
Distortion	<3% THD @ 1KHz to 30W
Input Impedance	.50KΩ 16KΩ with SmartSeries™ option

Mechanical

Construction	Cast aluminum
Finish	Epoxy
Connections	Screw-type barrier terminal blocks
Dimensions (overall)	14.31 H x 13.06 W x 11.68 D inches (363.6 x 331.8 x 296.6 mm)
Temperature range	(-4° F to +140° F) -20° C to +60° C
Relative Humidity	95%, non-condensing
Environmental Rating	IP66/Type 4X
Shipping Weight	49 lbs (22.2 kg)

Approvals

NRTL Listed	Hazardous locations, Class I, Div. 1, Groups B, C, D; (USA and Canada) Class II, Div. 1, Groups F, G; Class III, Div. 1; T6, Type 4X
CE Mark	
ATEX/IECEx Certified	II 2 G Ex db [ib] IIB + H2 T6 Gb
INMETRO Certified	BR - Ex d [ib] IIB + H2 T6