

Features

- **Supervision of up to 1500 SmartSeries™ or ICS SmartSeries™ stations**
- **Identification of active and faulty stations**
- **Priority paging feature**
- **Auxiliary inputs and outputs from SmartSeries™ field equipment**
- **Built-in diagnostic capabilities**
- **Support of up to eight Access Panels**
- **Available Tone/Speech generator**
- **Available Telephone Interface**
- **Available System Status Display**
- **Small, wall-mount enclosure**
- **Includes a FREE copy of the Portal system monitoring software!**



Typical Installation

- Power Plants
- Manufacturing Facilities
- Light Industry
- Water Treatment Plants

When faced with the responsibility of upgrading your plant communication system or with the task of designing or recommending an Emergency Notification System for your facility, GAI-TRONICS ADVANCE/SmartSeries™ systems offer a smart solution.

ADVANCE Lite is an economical alternative to a full ADVANCE cabinet that still offers many of the features and capabilities of ADVANCE:

- Up to six zones of SmartSeries™ Page/Party® stations can be supervised, allowing for a maximum system size of 1500 stations.
- ID feature identifies the specific station generating a page, so that control room personnel can easily locate the source of the emergency. The ID feature also drastically reduces maintenance time by clearly identifying the location of faulty stations.
- Priority paging feature allows a control room operator to override operational communication to issue priority pages to emergency personnel.

- Field stations can accept contact closure inputs and provide relay outputs for remote I/O applications.
- Self diagnostics monitor status and report problems with circuit cards, handset amplifiers, speaker amplifiers, speaker voice coils and cable paths.
- Access Panels provide an operator interface for alarm control, speech communications and system status monitoring.
- The Audio Messenger Interface (AMI) provides pre-recorded alarm tones and speech messages. The AMI also features a telephone interface.
- System Status Display allows maintenance personnel to view system status and faults from the ADVANCE Lite cabinet.
- Portal software provides a user-friendly graphical interface to the system. System status and faults can be viewed at any PC connected via ethernet to the ADVANCE Lite cabinet.

Model numbers for ADVANCE Lite are as follows:

| Type | Number of zones | Are Access Panels Required? | Is a Tone/Speech Generator/ Telephone Interface Required? | Zone Voltage Surge Protection | Is a Rack-Mounted Status Panel Required? |
|------|--|-----------------------------|---|-------------------------------|--|
| GTZ | X 2 zones - 2 4 zones - 4 6 zones - 6 | X Yes - 1 No - 0 | X Yes - 1 No - 0 | 1 | X Yes - 1 No - 0 |

Example: An ADVANCE Lite cabinet with 4 zones, Access Panel capability, a Tone/Speech generator, voltage surge protection and no Status Panel would be model GTZ-41110

Specifications

Electrical

| | |
|-----------------------|-----------------------|
| Supply Voltage | 120/240 V ac |
| Power Consumed | 336 VA, 212 W maximum |
| Input frequency range | 50/60 Hz |

Maximum Configuration

| | |
|--|---------------|
| Master Control Unit (MCU) card | 1 per cabinet |
| External Audio Interface (EAI) card | 1 per cabinet |
| Access Panel Interface (API) card | 1 per cabinet |
| Dual Page/Party® Interface (DPPI) card | 3 per cabinet |
| Audio Messenger Interface (AMI) | 1 per cabinet |

Field Station Capacity

| | |
|------------------------------|------------------|
| Monitored station capability | 250 per PPI zone |
| Access Panels | 8 per API card |

Master Control Unit (MCU)

| | |
|-------------------------|---|
| Front Bezel Connections | Keyboard / Mouse Serial COM 1; VGA monitor; USB 0, 1 |
| Front Bezel Controls | Reset |
| Front Bezel Indications | refer to pub. 42004-676L2B |

External Audio Interface (EAI)

| | |
|-------------------------|--|
| Frequency response | 250 Hz to 12.0 kHz ±1.5 dB |
| Distortion + noise | THD + noise <0.5% @ 1 kHz |
| Front Bezel Controls | none |
| Front Bezel Indications | On Line (green); Primary Active (green); Secondary Active (green); Primary Fault (red); Secondary Fault (red); Audio In #1 to #4 (yellow) |

Access Panel Interface (API)

| | |
|-------------------------|---|
| Frequency response | 250 Hz to 3.5 kHz ±1.5 dB |
| Distortion + noise | THD + noise <2.0% @ 1,020 Hz sine wave, -10 dB ref. 1.5 Vrms |
| Front Bezel Controls | none |
| Front Bezel Indications | On Line (green) Fault (red) |

Dual Page/Party® Interface (DPPI)

| | |
|-------------------------|---|
| Inputs/Outputs | Page Line, 33Ω, 250 to 6,000 Hz; Party Line 1, 33Ω, 250 to 6,000 Hz; Party Line 2, 33Ω, 250 to 6,000 Hz |
| Data communication | 2400 baud FSK modem |
| Frequency response | 325 to 7,000 Hz, +0, -3 dB ref. to 1 kHz |
| Distortion | 1.5% max THD @ 1 kHz |
| Front Bezel Controls | Monitor Level Adjustment; Page Line Balance Adjustment |
| Front Bezel Indications | On Line (green); RTS (yellow); EOL Fault (red); Ground Fault (red) |

Mechanical

| | |
|------------|------------------------------|
| Dimensions | 24.0" H x 20.63" W x 21.5" D |
| Enclosure | 16-gauge CRS |

Environmental

| | |
|-----------------------|--------------------------------|
| Temperature operating | +32° to +120° F (0° to +49° C) |
| Relative humidity | Non-condensing 10% - 85% |