



PA/GA Equipment For Hazardous and Non-Hazardous Environments



- **Power Generation**
- **Oil and Gas**
- **Petrochemical**
- **Chemical**
- **Water/Waste Water Treatment**
- **Steel and Heavy Metals**
- **Manufacturing**
- **Pulp and Paper**
- **Airports, Bus and Trains Stations**
- **National Parks, Zoos, Gardens, Amusement Theme Parks and Tourist Sites**
- **Office Complexes and Shopping Centres**

The NOVA 2001 Public Address and General Alarm (PA/GA) system utilises microprocessor technology to provide superior performance and reliability for all types of facilities. From remote system monitoring, to complete system health checks, to individually addressable speakers, NOVA 2001's innovative features meet customers requirements in a wide range of applications.

CUSTOMER BENEFITS

- Remote network interface reduces costs by allowing remote maintenance and system reconfiguration
- Fault diagnosis / alarm reporting are shown on the access panel to inform operator of system problems immediately
- Fully configurable messages and alarm tones offer practically unlimited capacity of expansion
- With SMART modules, system performs troubleshooting of the individual speakers, line transformers, and voice coils with no additional cabling required, which significantly reduces maintenance costs
- Large capacity digital audio matrix accommodates virtually any size system

SYSTEM CAPABILITIES

The NOVA 2001 PA/GA system offers an incredible range of features and accommodates extremely large system requirements. NOVA offers:

- Up to 64 Access Panels or other audio sources such as telephone or radio systems
- 128 Audio Outputs (broadcast zones)
- 64 simultaneous different audio paths
- 256 inputs / 320 outputs for external system interface such as fire and gas detection, process monitoring, pullboxes, sounders, beacons and others
- Individually controlled and monitored speakers
- 24 hours of message memory
- 64,000+ intelligent devices in a network
- Amplifier back-up via hot standby, redundancy of central equipment, or complete system duplication

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GENERAL SYSTEM SPECIFICATIONS

The PA/GA system is modular in design and is easily expanded. It can interface with any existing systems such as telephone, radio, paging/intercom or Public Address systems.

The system can be divided into one or more zones which can be accessed independently for announcement or alarm broadcasts. Broadcasts are transmitted through loudspeakers installed throughout the facility. The area coverage ensures calls will be clearly audible in the paged operating areas and their surrounding space.

Loudspeakers and beacon circuits support zones where one or more circuits can be partitioned into a zone. Each loudspeaker or beacon circuit is connected to the Central Equipment for amplification and control/monitor functions.

Up to 64 interfaces are supported, and each is assigned a priority for system access. The additional interfaces support external alarm/monitor systems; NOVA can activate external systems and also, when an external system is activated, NOVA can accept a signal from that system and switch on beacons or activate alarms.

Access panels allow voice announcements and alarm control operations. Announcements can be configured to broadcast in designated zones, or a zone selection feature enables users to direct announcements to selected zones.

Access panels are connected to the central equipment and assigned an access priority for announcements ensuring the panel with the highest authority level takes precedence over lower level panels. Similarly, alarms are given a broadcast priority that gives the most critical alarm precedence.

DATA SHEETS

Data sheets available for PA/GA equipment in the NOVA 2001 series:

Central Processing Unit	CPU2001-3	SMART MODULES:	
Digital Audio Matrix	MTX2001	Line Integrity Module	LIM2001
Input/Output Board	IBR2001	Automatic Level Control	ALC2001
Systems Card Rack	STD2001, EXP2001	Speaker Control Modules	12402 / 12403
Systems Card Rack	STD2001-3, EXP2001-3	Test Tone Generator and Monitor	12393 / 12399
Power Amplifier	PA250		
Engineers Test Panel	ENP2001		
Power Supply	PSU2001		

For copies of these, please contact GAI-Tronics and specify which data sheet you require, and whether you would like a copy by e-mail or by post.

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