FEDERAL SIGNAL

▶ Model PAGASYS® Gen II

Digital Public Address and General Alarm Systems with Networked Options

PAGASYS Gen II is a robust public address and general alarm platform for use in a variety of environments. The PAGASYS Gen II takes technology to the next level by offering a user-friendly, comprehensive, real-time system manager interface and a front-access design.

Upgraded NEW Features
In addition to providing the same legacy features the Federal Signal PAGASYS is known for the PAGASYS Gen II system includes multi-voice audio routing (6 voices), alarm audio "ducking" for clear voice communication, and integrated digital signal processing. Standard configurations and front access to the system hardware lead to reduced complexity and ease of maintenance.

PAGASYS Gen II allows a user to manage system operation from the centralized system manager with extensive software field diagnostics for system hardware, ISMT speakers, and beacon monitoring; as well as other aspects of the system.

New Technology Offers Cost Savings
PAGASYS Gen II has been redesigned to utilize innovative technology, while reducing cost of the system at purchase and maintenance. A high-performance processor and memory solution, along with integrated digital signal processing (DSP), supports up to 32 amplifier chassis (38400 Watts of audio power) per processor and monitors and drives an extensive network of speakers, beacons, and other safety equipment and peripherals.
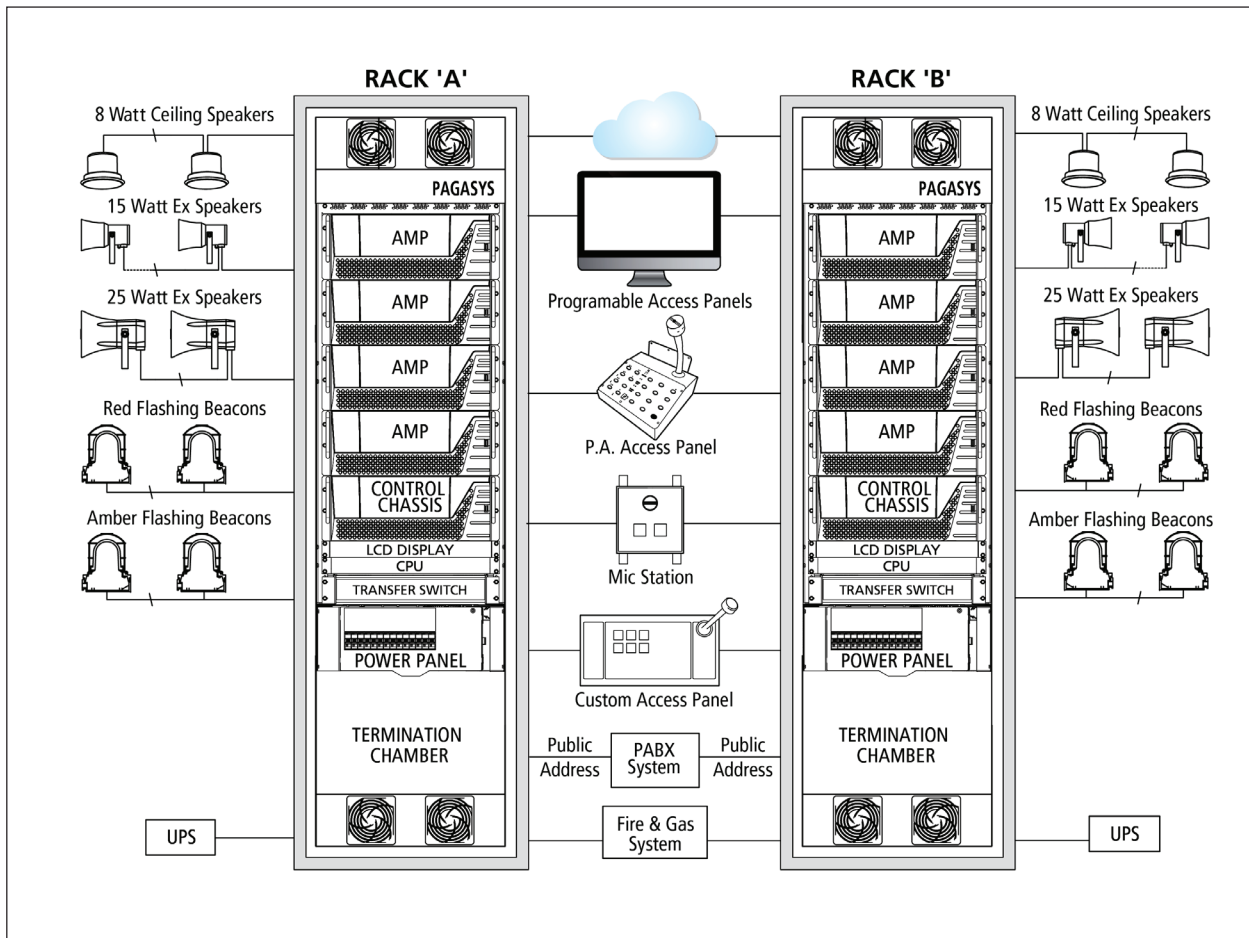
The PAGASYS Gen II networking features offer additional redundancy using IP networking and enables sharing of audio across an IP enabled Digital Audio Network Through Ethernet (Dante®) interface.

FEATURES

- System manager provides real-time system status, including event logs, system activity, broadcast status, impedance speaker monitoring, fan flow and amplifier thermal status

- Supports multi-voice audio, driving up to 6 voices concurrently to up to 128 zones

- DSP-based Audio

- Up to 32 access panels per system

- Supports Intelligent Speaker Monitoring and Tapping (ISMT)

- Fully configurable broadcast priority

- Front rack access for ease of maintenance

- Native PABX interface

- Up to 32 speakers per loop (with ISMT)

- Alarm audio "ducking" for clear voice communication

- A single controller can support up to 32 1200W amplifier chassis

- Up to 128 zones

- Up to 32 external audio inputs

- Up to 128 recorded messages

- Up to 128 peripheral devices

- Native support redundancy A-B

- DNV Type Approved and CE Certified as a Public Address and General Alarm System, using the standards DNVGL-CG-0339, the relevant parts of IEC60945 Ed. 4 for protected equipment, and EN 61000-3-2:2006, EN 61000-3-3:1995, EN 55103-2:2009 (PENDING)

- Support for Dante® enabled Global Access Panels

Digital Public Address And General Alarm Systems (PAGASYS Gen II)

SPECIFICATIONS

Operating Temperature:	-10°C to +55°C
Storage Temperature:	-55°C to +75°C
AC Input Voltage:	85 - 264VAC 50/60Hz
Cabinet size (DxWxH):	800mm x 600mm x 2000mm (31.50" x 23.62″ x 78.74")
Cabinet Model	Rittal TS8, Color RAL 7035
Cabinet Plinth Size	800mm x 600mm x 100mm (31.50" x 23.62″ x 3.94")
Wire Termination Access:	Front Access
Audio Voices (Simultaneous):	6
Line Level Supported:	70V/100V
Access Panel Wiring:	Standard 4-pair cables, including off the shelf CAT5/6/7

Amplifier Specifications

Amplifier Chassis Size:	19" 4U Chassis
Single Amplifier Power:	300W
Channels per Chassis:	4
Amplifier Chassis per Cabinet:	5 max, 4 with controller
Amplifier Continuous Duty Rating:	Rated for >1 hour 300W continuous duty at 55°C
Total Harmonic Distortion:	<0.2% at 1KHz using full rated output power (300W)
Max Watts per Amplifier Chassis:	300W - 1200W (1-4 300W amplifiers)

ISMT Specifications

Max Speakers per Loop:	32

H O W   T O   O R D E R

Federal Signal utilizes an online configurator to allow users to select the kits that they will need to build out their PAGASYS Gen II systems. This configurator allows users to select networked or non-networked PAGASYS Gen II systems and service parts. The PAGASYS Gen II service parts configurator allows selection of service parts for the controller, the amplifiers, and the I/O cards. For detailed information on the PAGASYS Gen II kits download the PAGASYS Gen II Kit Solution datasheet. The Federal Signal PAGASYS Gen II kits include the following models:

PAGASYS GEN II Kits (Table 1)

MODEL	DESCRIPTION
PK-NET-G/PK-NET-G-IP	Controller kit (non-networked or networked), including most I/O cards connected to controller
GENII-RC	2U Rack mountable mini-controller
PK-FAN-G	Fan kit, including the fan power supply assembly, fans, cables, etc.
PK-BK-MON-G	Beacon monitor kit
P-SERV-G/P-SERV-G-TS	1U Windows-based server, the 1U LCD/Keyboard, cable assemblies, includes System Manager software
P-SYSMGR-G	System Manager software, needed to interface with PAGASYS system if server not purchased
P-GLOBALIZATION-G	Multi-language support license for System Manager server
PK-A250-G	Amplifier chassis with one 100V amplifier PCB, includes P-AADC2-G I/O card and output cable
PK-A500-G	Amplifier chassis with two 100V amplifier PCBs, includes P-AADC2-G I/O card and output cable
PK-A750-G	Amplifier chassis with three 100V amplifier PCBs, includes P-AADC2-G I/O card and output cable
PK-A1000-G	Amplifier chassis with four 100V amplifier PCBs, includes P-AADC2-G I/O card and output cable
PK-A250-G-70	Amplifier chassis with one 70V amplifier PCB, includes P-AADC2-G I/O card and output cable
PK-A500-G-70	Amplifier chassis with two 70V amplifier PCBs, includes P-AADC2-G I/O card and output cable
PK-A750-G-70	Amplifier chassis with three 70V amplifier PCBs, includes P-AADC2-G I/O card and output cable
PK-A1000-G-70	Amplifier chassis with four 70V amplifier PCBs, includes P-AADC2-G I/O card and output cable
PK-ISMT-G	ISMT card kit
GENII-RA700/GENII-RA700-70	2U form factor rack mountable 2 x 350W amplifier, offered in 100 or 70Vrms
P-TRANS-SW-G-XXX*	Transfer switch kit that provides a interface to redundant power supplies, 120 or 240VAC
P-AP-XXXX-G	Access panel models, six in total, differing in mounting type and safe or hazardous area support
P-GAP-G	Global Access Panel, to interface with networked controllers
P-AP-KYB-COVER	Access panel keyboard cover
P-MIC-EXWMx-316-G	Microphone station models, one button or two buttons
P-IS-BARRIER-G	Intrinsically safe barrier card
PK-CABINET-KIT	Standard 800x600x2000 cabinet, metalwork, wiring, etc. not included in the other kits
PK-POWER-G/PK-POWER-G-120	The power panel assembly above the MDF area of the standard PAGASYS rack
PK-MDF-KIT	The three MDF panels, the audio panel, the I/O panel, and the power panel

* Add -120 or -240 at the end of the part number for 120VAC or 240VAC

PAGASYS GEN II Controller Service Parts (Table 2)

MODEL	DESCRIPTION
K20000170	Controller backplane service part
K-P-IAMC-G	Internal AP mux card service part
K-P-AAMC-G	Amp audio mux card service part
K-P-CPC-G	Processor card service part
K-P-IOIC-G	I/O interface card service part
K-P-ADPS-G	Controller power supply service part
K-P-CMC-G	Miscellaneous card service part
K-P-EAMC-G	External AP mux card service part

PAGASYS GEN II Amplifier Service Parts (Table 3)

MODEL	DESCRIPTION
K20000154	Amplifier signal backplane service part
K20000155	Amplifier power backplane service part
K-P-ISMT-G	ISMT card service part
K20000150	100Vrms amplifier card service part
K12000775	100Vrms transformer service part
K20000150-70	70Vrms amplifier card service part
K12001655	70Vrms transformer service part

PAGASYS GEN II I/O Service Parts (Table 4)

MODEL	DESCRIPTION
K-P-APIC-G	Access panel aggregator card service part
K-P-16DIN-G	Digital input card service part
K-P-BK-MON-G	Beacon monitor service part
K-P-SPDT-G	Relay output card service part
K-P-FCMC-G	Fan control and monitoring service part
K-P-MONIC-G	Monitored input card service part
K-P-PTBC-G	Passive terminal block card service part
K-P-CPIC-G	Power injector card service part
K-P-AADC1-G	Amplifier audio distribution card 1:1 service part
K-P-AADC2-G	Amplifier audio distribution card 1:2 service part
K-P-AADC4-G	Amplifier audio distribution card 1:4 service part
K-P-AADC8-G	Amplifier audio distribution card 1:8 service part
K-P-FWTC-G	Fan termination card service part

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