



*Shown with optional equipment*

## Industrial Public Address / Communication Systems

- Stand-alone, hot standby, or duplicated systems with network options
- Digital Signaling Processing (DSP)
- 8 Zone PBX interface option provides store and forward, and live paging
- Full feature control panels with custom touchscreen options
- High power speakers and amplifiers up to 4000 watts per cabinet
- Remote I/O for integration into fire & gas, automation or safety systems
- IP configurable nodes
- Built in tone generator and voice message storage (up to 128 messages standard)
- Mass notification options
- Background music input (auxiliary audio)
- Intercom interface

# Industrial Public Address General Alarm System

## Model I-PAS

Federal Signal's Industrial Public Address System (I-PAS) is a reliable, cost-effective, off-the-shelf solution providing users flexibility to specify a precise combination of features and capabilities previously available only in highly integrated custom communication systems.

The I-PAS system is engineered for tough, demanding industrial applications that call for public address to oversee critical production processes in combination with general alarm communications for safeguarding personnel facility wide. As versatile as it is dependable, I-PAS is compatible with a full range of industrial and commercial speaker options in low to high outputs.

I-PAS is based on the theory that optimum configurability promotes maximum flexibility. A standard graphical user interface (GUI) supports both touchscreen control and the design of application-specific interfaces. The system can be easily wired for single-loop speaker configurations as well as larger, more complex redundant/duplicated or IP/networked solutions.

In addition to high quality public address and reliable general alarm, I-PAS supplies the necessary control options (6 inputs and 12 outputs standard) to facilitate easy integration into other disparate systems. I-PAS readily connects to PBX telephone systems through an optional PA-TZM8 telephone module. Using the supervised version of the amplifiers allows for efficient monitoring of both speaker loops and amplifiers for faults. The optional Hot Standby Module (PA-HSM) provides an additional layer of reliability by transferring the speaker load to a standby amplifier in the unlikely event of an amplifier failure.

The ability to integrate across a multitude of platforms, plus the potential utilization of cost-effective networking (when applicable), makes I-PAS the productive solution for both small and large plant communication systems. Seamless integration over hardware, fiber optics and Ethernet, coupled with a full range of operator controls, including touchscreen GUIs and analog control panels, substantially simplifies the process of integrating a system to meet unique application requirements.



The diagram illustrates two system configurations for the PA-APC8 system, separated by a dashed green line.

**Stand-Alone System:**

- PA-AP Push Button:** Up to 8 per PA-APC8.
- PA-I-W:** Up to 8 Zones per rack. Requires PA-BPC per color.
- Fire & Gas Systems:** Connected to the PA-I-W.
- PBX:** Connected to the PA-I-W.
- ATEX Speaker and Beacon Variants:** Includes P-LS2 Zone 1, 2000 Series Zone 1, and 27XST Div 1.

**Expanded via Network:**

- PA-SAP Touchscreen:** Connected to the central **NETWORK**.
- Nodes:** The system is expanded via a network to multiple nodes (NODE 2, NODE 3, NODE 4).
- UL Speaker and Beacon Variants:** Includes AM300X Div 1, AM50, AM300GCX Div 2, 151XST Div 2, AMR6, AM30T, FB2PST, and AM100H.

**I-PAS SYSTEM RACK:**

PA-I-W	PA-System, Wall Mount 18U, up to 8 Zones. Includes 1 x PA-IPAC Controller, 1 x PA-APCM8 Hard Access Panel Module. Amps and access panels ordered separately.
PA-I-F	PA-System, Floor Mount 42U, bottom entry, up to 8 Zones, includes PA-IPAC Controller, PA-APCM8 Hard Access Panel Module. Amps and access panels ordered separately.

Up to 4 per rack cabinet of the same type.

CTS2000-120	Two Zone, 2 x 500W zones, 120VAC operation
CTS2000-240	Two Zone, 2 x 500W zones, 240VAC operation
CTS2000-120-S	Two Zone, 2 x 500W zones, 120VAC operation, Supervision (Amp / Speaker Line)
CTS2000-240 –S	Two Zone, 2 x 500W zones, 240VAC operation, Supervision (Amp / Speaker Line)

PA-AP	Hard Access Panel Desk Mount
PA-AP-19	Hard Access Panel 19" Rack Mount
PA-SAP*	Soft Access Panel (Touchscreen GUI) unlimited quantity <i>*Requires PA-NS network switch option</i>

PA-AP	Hard Access Panel Desk Mount
PA-AP-19	Hard Access Panel 19" Rack Mount
PA-SAP*	Soft Access Panel (Touchscreen GUI) unlimited quantity <i>*Requires PA-NS network switch option</i>
PA-SAP-19	Soft access panel mounted on plate for use in 19" racks or control consoles
PA-RMS	Remote Mic Station

PA-TZM8	Telephone Zone Management Module, 8 Zones, Store and Forward (Feedback Control)
PA-NS	Network Switch (1 per node/rack), required for IP connectivity and soft access panel operation
PA-HSM	Hot Standby Module
PA-BPC	Beacon Power Circuit, for control and initiation of field beacons (single color)

PA-IPAC	Digital Processing Controller
PA-APCM8	Access Panel Controller, 8 Channels