



- Central Processor VX/AT-M
- Microphone Access Panel VAP30
- Amplifier Fan VA300/FAN
- Amplifier Module VA300+M
- Amplifier Cage VA300/CAGE-M
- Power Supply VA300+/PSU

The PSC VODEC M Class PA/GA (Public Address and General Alarm System) is the culmination of over 15 years experience in the design, manufacture and commissioning of high integrity voice/alarm broadcast packages for life safety applications. The PA/GA System is specifically developed for use in aggressive operating environments including potentially hazardous atmospheres. PSC VODEC PA/GA is designed to reliably operate for extended periods of time without failure or recourse to routine maintenance. PA/GA has been independently certified to meet the strictest climatic conditions specified by leading authorities including CE, DNV, CSA, LR.

The PA/GA package can be supplied in a number of system architectures:

- Fully duplicated A+B configuration
- N+1 Hot-Standby configuration key components are duplicated and configured on Hot-Standby
- Combination of A+B and N+1 for ultimate system security

**PA/GA system units**

- **System rack**  
Depending on application several sectors/area maybe assigned dedicated PA/GA resources with network connections to communicate inter sector.
- **Operator access units**
- **Loudspeakers**
- **Flashing beacons** (high intensity) in high ambient noise areas

**Amplifier cage**

The amplifier cage carries loudspeaker amplifiers, type VA300+M, which facilitate both drive and management of groups of loudspeaker devices.

**Amplifier module**

A typical PA/GA system might have amplifiers ranging from two units to hundreds of amplifiers depending on the acoustic alarm signals and intelligible speech coverage requirement over the site.

**Amplifier power supply**

The VA300+M amplifier provides extremely high power density in a compact lightweight modular plug in “cassette” format. VA300+ amplifier power supply is derived from VA300+/PSU which facilitates dedicated outlets for each amplifier thereby enhancing overall system security.

**Management central processor VX/AT-M**

The complete package is managed by the PSC VODEC VX/AT-M central processor.

VX/AT-M provides:

- Secure switching of input/output program
- Generation of internationally specified alarm tone cadence

- Various redundancy concepts
- Fully monitored system
- Non-software based system



- Supervision and control of system priorities
- Supervision of the complete PA/GA system
- Re-programmable system configuration via email

The VX/AT-M processor is based upon highly secure VSOC technology which obviates sequentially executed stored program. Instead the VSOC chip is configured by tamper-proof switches located inside the unit.

**Ports**

Connection of field equipment to the host rack is made via an integral “MDF” which houses a number of DIN rail mount termination “ports”.

A family of PSC VODEC ports enable simple reliable implementation of

- Self healing loudspeaker and flashing beacon networks “Loop” based
- Mutable loudspeakers
- Interfaces to other site systems e. g. PABX, VHF, Radio, SCADA, Fire and Gas, ESD, Supervisory, Event Recording, Entertainment Systems
- Connection to operator access units
- AC/DC power supplies

**Page/Party communication**

A system can be extended to include Page Party communications by incorporating a PSC VODEC VXS or VX/S-8 shelf which enables connection of page/party handset subscriber stations and paging loudspeakers. Single VXS allows connection for up to 16 telephone stations and is expendable to 1024 subscribers.

**Access units**

A range of operator access units are available from the standard PSC VODEC VAP01/VAP30/MVAP series or “tailor made” human machine interface to client specification. ATEX certification allows safe access facilities in potentially explosive hazardous areas.

**Remote monitoring**

The state-of-the-art MClass allows to capture and report detailed operational information in real-time and when connected to M Class infrastructure all this information is available to a remote server, which logs and displays data as required.