



# SemSound IP

**The SemSound IP Public Address and Alarm (PA/GA) System is a fully digital system utilizing IP connectivity between multi-platform systems as well as IP connection for remote access.**

The SemSound IP system is special designed by Semco Maritime to the high safety standards in the Oil & Gas and Offshore Wind Turbine industry. The system is based on fully digital signal processing and communication between the systems is achieved via Single mode or Multi mode fibre optical cables.

## Fully digital and redundant system

The redundant IP digital PAGA router is the heart of the system. The routers are capable of controlling the system simultaneous routing up to 48 inputs / outputs including control and monitoring of up to 64 amplifier frames.

## Remote controlled via Internet

The Public Address and General Alarm systems can be configured either remotely via the internet or locally. The system is supplied with a user-friendly interface

and extensive event logging for diagnostic purposes.

## Worldwide TCP/IP integration

Multiple PA/GA network integration is possible via redundant fully monitored dedicated fibre networks or via public TCP/IP networks.

The system also delivers a long range of new innovative features i.e. calls in queue, integrated storage of calls to prevent acoustic feedback, 64 monitored pre-recorded voice messages with a duration of up to 40 minutes, background music, automatic volume control, equalizing, hot standby

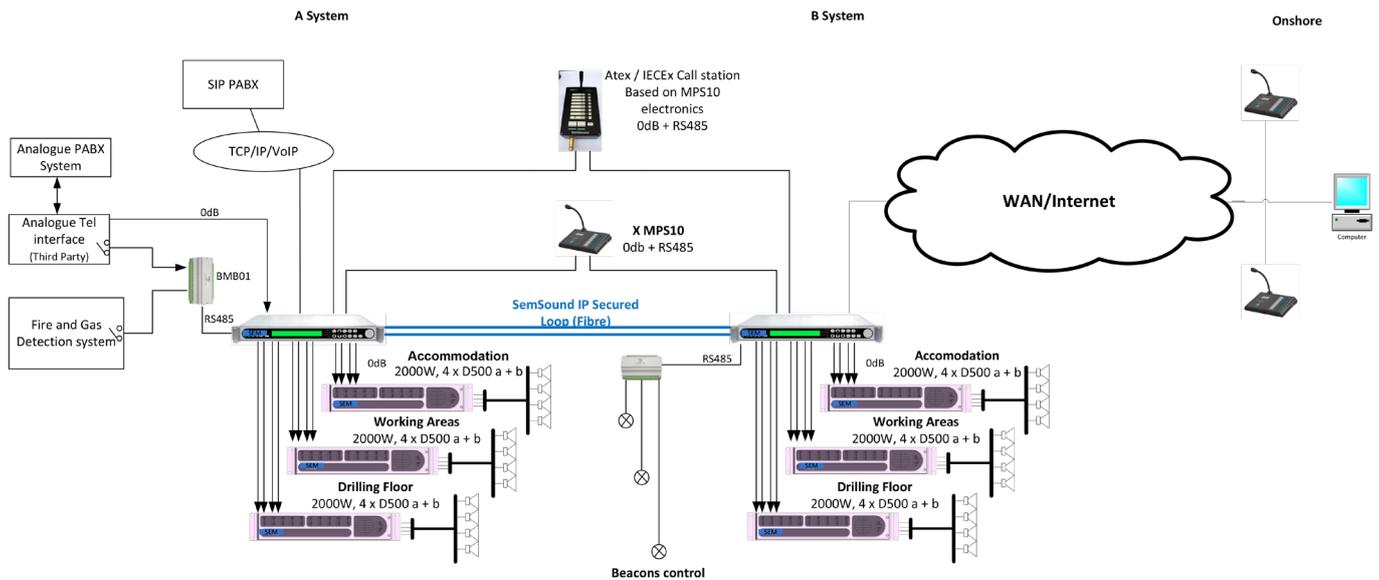
amplifiers, Line detection, system fault detection, etc.

## When power consumption, heat, weight and space matters

The power amplifiers are transformer less, class D and characterized by very high efficiency. Class D amplifiers are available in 150W and 500W programmable in 25W steps up to their maximum. The amplifiers are housed in a 19" 2HE shelf with 10 amplifiers in each self and up to maximum 2000W per shelf. The amplifiers are built for hot swap and with no need for configuration updates due to swapping an amplifier.



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Standby amplifiers can be 1 in each amplifier shelf or 1 standby amplifier covering several amplifier shelves.

## Call Stations

A wide range of call stations are available in Ex and non-Ex type. The Exi, Exm and Non-Ex call stations can interface to the PAGA IP Router via copper cables/RS-485 in a redundant configuration or through the IP network.

The Non-Ex and Ex call stations are available in different configurations from 1 up to 50 configurable pushbuttons.

## Customers worldwide

Since the introduction of SemSound and SemSound IP Semco Maritime has delivered the system for safety critical installations worldwide.

## The Key factors of the system:

- Fully IP connectivity local and remote
- Fully Redundant and with digital sound quality
- Less in size and weight (50% less than traditional systems)
- Hot swappable power amplifiers
- Low power consumption
- Low heat emission
- Low cost for commissioning, maintenance and upgrade
- Software-based setup including web-based remote configuration and monitoring

## For further information:

[www.semcomaritime.com](http://www.semcomaritime.com)

## Hardware options:

- Single system
- Redundant system
- Multi-platform IP Integrated systems
- Purges systems certified as Exp
- Integrated UPS and external UPS
- Gas Logic Control system for separate shut down control

## Approvals:

The overall system is conforms to the following standards:

- EN55103-1/E1
- EN55103-2/E5
- EN50121-4
- ENV50204
- EN60065
- IEC60945
- SOLAS