

# CEAS

## Interconnected PAGA system

Ideal for :

- Utilities
- Oil & gas
- Mining
- Industrial sites



## Description

The CEAS is an industrial strength PA/GA (public address + general alarms) system with remote management tailored for the connected utilities.

Alarm tones and live speech can be triggered by dry contact inputs, phone lines or line level audio inputs. Each input trigger is managed by a strict priority matrix so that critical events override less important ones.

Configurable alarm tones can be customized for different events such as general evacuation, gas detection.

The live speech and alarm tones can be broadcast in specific physical zones, based on the type of event. The CEAS manages up to 32 zones.

Dry contact outputs are used to trigger peripherals such as visual beacons, and to confirm alarm tone emission to external systems such as PLC or SCADA.

The CEAS integrates an independent remote management interface, which allows to retrieve the status of each system in the fleet and to customize operational parameters.

M2S offers a complete range of accessories and peripheral to tailor the system for your specific needs or existing equipment.

## Functionnalités

- Safety critical emergency notifications (general alarms)
- Security and general interest messages (public address)
- Staff availability (phone ring extensions, paging)

## Safety critical duty

- Failsafe design
- Hardwired logic, no software in the critical loop
- Multiple redundancy options N+1, A+B
- Robust industrial amplifiers
- No safety critical parameter can be accessed from the remote access interface

## Remote management

- Event logging and reporting
- Remote diagnostics
- Single TLS secured communication channel
- Compatible with standard telecom tools (SNMP, syslog, Sntp)
- SCADA compatible
- Allows to meet NERC CIP compliance

## Low cost of ownership

- Compatible with existing infrastructure
- Sub zoning for reduced amplifier count
- High power density, reduced rack size
- License free

## Specifications

### Inputs / outputs

Dry contact : 28 in / 28 out  
Audio : 9 in / 32 out  
PBX : 18 ring detec / 1 full

### Amplifier

Up to 2.7 kW (8 amplifiers)  
High efficiency  
Fully protected  
Hot swappable

### Speaker line

70 V line (default)  
25 V line (configurable)  
100 V line (option)

### Communication

Remote diagnostics  
Event logging  
Integrated web interface  
Allows to meet NERC-CIP

### Peripherals

Loudspeakers  
Beacons  
Slave amplifiers (option)  
Optical transmitters (option)  
RF transmitters (options)  
ATEX modules available

### Dimensions

Standard 19-inch racks  
Floor mount 42U (default)  
Wall mount 15U (option)  
Shipped pre-wired

### Supply and environment

-48VDC  
115/230 V AC  
129VDC  
CSA/UL 60950-1 certified

## Typical system

