Introducing Cerberus PACE

The sound of safety
Cerberus PACE – Public Address and Controlled Evacuation

In commercial and public buildings, life safety must always be the highest priority. Effectively moving people out of harm’s way in case of an emergency is largely a matter of communication – which is why public address and voice alarm (PA/VA) systems in these buildings aren’t just a useful tool for announcements, entertainment or live moderation but an integral part of the safety infrastructure. With Cerberus PACE, you can cover all your PA/VA needs with a single solution. It was designed with the specific convenience and emergency applications in mind, from ambient music to public speaking to guided evacuation. Thanks to its state-of-the-art modular and scalable system architecture, Cerberus PACE can be customized for buildings of all types and sizes and offers unique benefits that will reliably ensure the safety and comfort of your employees, visitors and guests 24/7.

Multi-redundancy
Maximum reliability is a key prerequisite for safety-critical systems including voice alarm systems. To ensure failure safety for all applications, Cerberus PACE can incorporate all redundancy levels from individual backup components up to a complete double tree structure. Moreover, the network can be made redundant by expanding the EN 54-16 standard single loop network topology to a double loop / double tree topology or combinations thereof.

Step-by-step modernization
There is no need to start from scratch if you have an outdated or broken PA/VA system. Cerberus PACE offers step-by-step modernization, keeping legacy speaker line structures including speakers to achieve EN 54-16 compliance and modern functionality. The key is the installation of smart end-of-line (EO/L) modules that identify any faults. In this way, you can safeguard past investments and stretch the new ones out over time.

System configuration in three steps with PACE-Design

For the convenient setup and management of all components, Cerberus PACE comes with the dedicated configuration software PACE-Design. It provides an overview and control of all relevant functions. With PACE-Design, Cerberus PACE can be configured in a 3-step process. No system restarts are required throughout this process.

1. Connect a PC or laptop running PACE-Design to the desired network switch (PACE-NET) via Ethernet.
2. All network elements will be automatically loaded into PACE-Design and appear immediately on the screen.
3. Configure the system and the corresponding in- and outputs.

Multi-redundancy
- Beyond EN 54-16
- Regulatory compliance and much more thanks to state-of-the-art technology
- Multi-redundancy
- Maximum system reliability with redundant components up to complete double structure
- Real-time engineering
- System configuration without restarts ensures business continuity at all times

Step-by-step modernization
- Old or defective PA/VA system
- The initial situation usually involves a third-party PA/VA system that was built in compliance with outdated standards and is possibly malfunctioning.
- EN 54-16 compliance
- In the first modernization stage, the new central audio components are implemented and end-of-line (EO/L) modules added to the existing speaker lines.
- State-of-the-art PA/VA topology
- In the final stage, the tree structure of the speaker lines is replaced with the more resilient double loop structure including the corresponding speakers.

Your benefits at a glance
- Pro Sound
- High-quality, low-latency speaker output for optimum intelligibility and comfortable ambiance
- Step-by-step modernization
- Smooth system implementation with addressable end-of-line modules
- Loop-isolators
- Fail-safe loop isolators thanks to omission of error-prone capacitors

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**Base components**

**Call stations**

- Desk call station (19 buttons) PT2001
  - Order no.: S54451-B3-A1
- Desk call station (24 buttons) PT2002
  - Order no.: S54451-B4-A1

**Control panels**

- System state indicator (19") PTO2001
  - Order no.: S54451-B4-A1
- Alarm control panel (19") PT2010
  - Order no.: S54451-B2-A1

**Digital audio matrix**

- Shared properties: 8 digital inputs and outputs (400 m)
- 5-way bus with or without digital signal processing (DS) fault relay

**Cabinets**

<table>
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<tr>
<th>Available options</th>
<th>EIA</th>
<th>80x80 cm</th>
<th>90x90 cm</th>
<th>100x90 cm</th>
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<td>220</td>
<td>220</td>
</tr>
</tbody>
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**Network and power components**

**Network switches**

- Ethernet switch (10GB) PTO2001
  - Order no.: S54451-B6-A1
- Fiber optic interface (1 mod) PTO2005
  - Order no.: S54451-B5-A1

**Power supply**

- Power supply (250 W): 230 VAC and 24 VDC
  - Order no.: S54451-B5-A1
- Power supply (100 W): 230 VAC and 24 VDC
  - Order no.: S54451-B6-A1

**Power amplifiers**

- Power amplifier (300 W): 230 VAC and 24 VDC
  - Order no.: S54451-B5-A1
- Power amplifier (750 W): 230 VAC and 24 VDC
  - Order no.: S54451-B6-A1

**Accessories**

- End-of-line (EOL) module
  - Order no.: S54451-B2-A1
- Loop isolators
  - Order no.: S54451-B2-A1