EESDAU100 - Emergency evacuation system distributed amplifier unit

The Emergency Evacuation System (EES) Distributed Amplifier Unit (DAU) is designed for easy installation and simple networking, allowing the system to be installed into nearly any application.

It is supplied in a wall mountable box which is complete with messages, contacts, dual 50W monitored amplifiers, EN54-4 approved power supply, monitored battery charger and the ability to connect non monitored paging and music sources directly.

The boxes can be connected together using the network ports so a system with up to 32 nodes is achievable. The system can be paged from the all call EESEMA fire microphones.

Features and benefits

- Can function as a stand alone or networked system
- EN54-16 and EN54-4 LPCB certified
- BS5839 part 8, 2008 compliant
- Dual 50W 100V line outputs
- 3 Messages (65 Seconds total)
- Wall mounted
- Common fault out
- Paging input
- Full fault monitoring
- EN54-4 battery charging and monitoring
- Direct music input
- Music ramping
- Up to 32 units per network
### Technical specification

<table>
<thead>
<tr>
<th>Code</th>
<th>EESDAU</th>
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<tbody>
<tr>
<td>Description</td>
<td>Voice distributed amplifier unit (DAU)</td>
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<tr>
<td>Standards</td>
<td>EN54-16 and EN54-4 LPCB certified</td>
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#### Power supply and charger

- **AC input**: 230Va.c +/- 10% 50/60 Hz
- **Internal power supply**: 276V dc
- **Supply & battery**: Monitored
- **Protection**: Deep discharge, Short, Terminal
- **Temperature compensation**: Yes
- **Battery size and type**: 2 x 12V 5Ah (for 24h + 30min sounding)
- **Mains fuse**: 240V 2A HRC
- **Battery fuse**: 6.3AF 20mm
- **Max charge current**: 1.1A

#### Inputs

- **Ports**: 2 (in and out)
- **Cables**: 4 x 2-core cable ring topology

#### Background music

- **Sensitivity**: -6dBV to +2dBV
- **Level range**: 30dB

#### Speaker circuits

- **Circuits**: 2 x 50W RMS
- **Level**: 100V RMS (+40dBV)
- **Bandwidth**: 80 Hz to 18 KHz (-3dB full power)
- **Distortion**: 0.05% 50W 276V 5% 50W 22V
- **Monitoring**: DC End of line (18KΩ)
- **Capacitor**: Typically 2.2 uf 250V DC
- **Fault indication**: Open, Short, Earth
- **Protection**: Short, open, thermal, DC offset

#### Fire interface

- **Compatible inputs**: 3 off isolated + 12V to +33V
- **Outputs**: 1 Relay (open on fault)

### Dimensions

<table>
<thead>
<tr>
<th>Description</th>
<th>H (mm)</th>
<th>W (mm)</th>
<th>D (mm)</th>
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<tbody>
<tr>
<td>Voice DAU panel</td>
<td>400</td>
<td>320</td>
<td>180</td>
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### Catalogue numbers

<table>
<thead>
<tr>
<th>Description</th>
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<tbody>
<tr>
<td>100W Addressable DAU</td>
<td>EESDAU100</td>
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