

AP100-01-04

16 ZONE PA ACCESS PAGING PANEL

DS-244 Issue 01



Thank you for your interest in Ziztel - we are a UK based manufacturer of PAGA and Intercom products. Our systems are mainly designed for use in the Hazardous Oil, Gas and Petrochemical industries.

Consequently our products are very robust and designed to comply with international standards.

The AP100-01-04 is designed for use in life safety dependent PAGA packages and features full automatic self-monitoring to provide an early warning of system deterioration.

Please do not hesitate to contact us for further information on our products we look forward to working with you on a project soon...

ZIZTEL ZEST AP100-01-04 BULK HEAD MOUNT

Includes audio compression and limiting

Low cost installation, simple commission

Uses a single pair field cable

Desk/wall mount in an industrial application

Provides operator feedback of system performance

The Ziztel ZEST AP100-01-04 access unit is a 3U high, industry standard desk/bulk head mount access panel designed to allow operator live voice broadcast for routine paging for up to 16 zones.

The unit consists of a robust steel enclosure which carries a flush fit tactile operator keyboard and a noise cancelling flexible gooseneck mounted microphone assembly. Either single or duplicated electronics is fitted depending on criticality of application, for example A+B or 2N+1 dual redundant high security system architectures.

The unit is fitted with a tamper proof configuration file download port enabling project specific applications to be assigned without recourse to chip exchanges/panel wiring.

The membrane keypad incorporates unique multiple switching elements ensuring long, trouble free, reliable through life service. Indicator arrays are fitted which feature raised dome embedded LED technology enabling high visibility and again reliable service in continuous duty applications.

Connectivity between host central equipment rack and access unit position is implemented by a single shielded twisted pair cable which also carries the excitation voltage thus obviating dependence on local power supply sources.



Flush fit console version shown, rear enclosure for wall mounting enables location in an industrial environment.

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To ensure highest integrity each access unit position is discreetly cabled by a dedicated radial circuit and where dual system architecture is specified duplicated A+B cables are assigned to obviate common mode failure possibility.

The access unit incorporate signal processing aids which include the following:

- Microphone signal compression and limiting; this ensures efficient use of available amplifier power, prevents damage to loudspeakers due to signal over shoots/clipping and compensates for poor microphone technique.
- Tamper proof Hi and Low frequency response adjustment; allows the engineer to maximize speech intelligibility on a 'per access unit' basis
- Microphone sensitivity control, again tamper proof, to allow the unit to be operated efficiently in a wide range of service conditions.

Dual A+B VU level meters are incorporated which provide positive feedback to the operator ensuring that correct microphone technique is maintained. A free standing desk top version is available.

| Technical Specification | |
|--------------------------------|---|
| Power supply voltage | Nominal 5V _{DC} |
| Power supply | 100mA maximum |
| Selectable zones | 16 |
| 'Press to talk' buttons | 1 |
| Lamp test buttons | 1 |
| Fault / warning accept buttons | 1 |
| Frequency response | 200Hz to 7kHz |
| Weight | ~3Kg |
| Dimensions | 133mm high x 70mm depth x 483mm wide |
| Operating temperature range | -20°C to +70°C |
| Service Location | IP43 EN60529 (safe area non-hazardous atmosphere) |



Shown - Dual microphone and twin transceiver A + B N+2 execution for mission critical fault tolerant PAGA applications.

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