

AP100-01

PAGA MICROPHONE ACCESS PANEL



DS-042 Issue 05

Thank you for your interest in Zitel - 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. Our products are very robust and designed to comply with international standards. AP100-01 can operate on simple single pair cable, dark fibre optic cable or IP / Ethernet connectivity.

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

ZITTEL ZEST AP100-01 ACCESS UNIT

Industry standard keypad design – *Compliance with NORSOK regulations*

A+B dual VU meters – *Active visual feedback ensure optimum broadcast capability*

Single-pair field cable - *Low cost simple installation – No special or multi core cables required*

Audio compression and limiting – *Highest speech intelligibility*

Single / N+1 / Dual A+B PAGA architectures – *Highly secure, designed specifically for critical applications*

The Zitel ZEST AP100-01 series access units are 3U high, industry standard 19inch rack/console mount access panels designed to allow operator live voice broadcast and alarm tone initiation and control.

The unit consists of a robust steel panel which carries a flush fitting tactile operator keyboard and either singular or dual noise cancelling flexible gooseneck mounted microphone assemblies.

Single or duplicated electronics and microphones are fitted depending on criticality of application, for example A+B or 2N+1 dual redundant high security system architectures.



ZITTEL LIMITED

email: sales@zittel.com web: www.zittel.com tel: +44 (0) 115 9202888
mail: 96 Rolleston Drive, Arnold, Nottingham, NG5 7JP United Kingdom

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Dual VU meters aid efficient microphone technique ensuring consistent high quality speech broadcast.



Critical control keys are guarded to prevent accidental operation.

The membrane key pad incorporates unique multiple switching elements ensuring long, trouble free, reliable through-life service. Dual 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 thereby eliminating multicore cables and dependence on local power supply sources.

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

The AP100-01 series access unit incorporates 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 'lo' 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.

Optional desktop access panel enclosure type AP100-01-D is available for free-standing applications.

Bespoke access panels can be engineered to client specification, including special finishes, with desktop, fist or standard gooseneck mounted noise cancelling high performance microphone transducers readily available. Project specific text / panel layout / colour coding is available to order.

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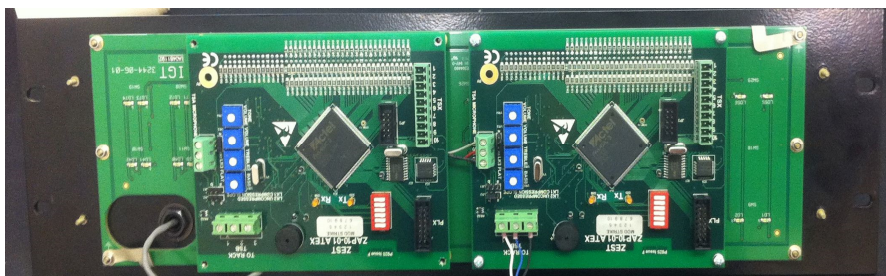


Please note that the AP100-01 can be supplied with custom legends / layout and text to client specification.

Communications

Standard field connectivity is a by single pair copper cable. This arrangement provides service up to 1300 M cable length. Optional connection media is available to support communications between the access unit position and host amplification equipment rack-s by either dedicated dark fibre optic cable or by IP via an Ethernet system.

Technical Specification	
Power Supply Voltage	Nominal 5Vdc
Power Supply Current	100mA maximum
Selectable Zones	16
Alarm Initiate buttons	5
Alarm Mute buttons	1
Alarm Cancel buttons	1
Emergency Speech buttons	1
'Press To Talk' buttons	1
Lamp Test buttons	1
Fault / Warning Accept buttons	1
Frequency Response	150Hz – 16kHz
Weight	~3Kg
Dimensions	133mm high x 70mm deep x 483mm wide
Operation Temperature Range	-20°C to +60°C
Service Location	Internal safe area
Connectivity	Single pair copper cable, Dark fibre – single mode (multi-mode to special order) or IP Ethernet



Above rear view of AP100-01 shows duplicated transceivers fitted for secure N + 1 or A + B applications

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