

ZAP10-01

PAGA ACCESS UNIT TRANSCEIVER



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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.

ZAP10-01 is a highly developed PAGA 'front end' preamplifier/transceiver designed to operate with the AP range of Ziztel access/control units. The card is fully supervised to alert the operator to possible link degradation.

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



ZIZTEL ZAP10-01 ACCESS UNIT TRANSCEIVER

Operates on a single pair cable – No multicores, low cost installation

Critical path supervision – Early warning of system degradation

Suitable for single/A+B or N+1 PAGA execution – High security in life safety applications

The Ziztel ZAP10-01 is a highly integrated PAGA access unit transceiver designed to encode push buttons and decode LED status indications enabling data transportation over a single field cable pair.

The design requires NO local power supply, instead the unit is energised by a 'phantom' power arrangement which derives 5VDC supply from the host central equipment rack management over the same wires that carry data. So the single pair field cable transports the following services:-

- 5V_{DC} power supply
- Microphone audio
- Push button and LED data

The unit is designed to operate reliably on a standard non-critical single-pair screened cable field cable up to 1400m in length before repeaters are required, making installation simple and effective.

The ZAP10-01 can be duplicated A+B or N+1 for mission critical applications thereby eliminating common mode failure risk and ensuring secure operation in a life safety PAGA system.

ZIZTEL LIMITED

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The ZAP10-01 is equipped with convenient engineer screwdriver tamper-proof adjustments, including; microphone volume level, high frequency cut/boost and low frequency cut/boost. An onboard limiter/compression scheme compensates for possible poor operator microphone technique thereby enabling efficient usage of available system amplifier power.

The unit includes uncommitted open collector outputs, extended on 'TSX' male Phoenix connector, and this, in conjunction with the fully programmable 'on board' microcontroller system, allows complex project specific 'cause and effects' to be downloaded. The ZAP10-01 is equipped with a piezo sounder which can be programmed to provide audible trouble alert or audible confirmation of keypad input button depression.

The unit is designed to operate in conjunction with membrane style key boards – example AP100 series – or can be employed in project specific access unit assemblies using conventional industrial pattern push button/indicators.



Photo shows ZAP10-01 Zitel transceiver installed on an AP100-01 access unit.

| Technical Specification | |
|-------------------------|--|
| Supply | Phantom powered |
| Supply Voltage | 5V _{DC} |
| Consumption Maximum | 50mA |
| Cable Requirement | 1 screened pair minimum CSA/Conductor 0.5mm ² ; (1.5mm ² for 1400m cable length) |
| Frequency Response | 100Hz to 10kHz |
| Distortion THD | 0.1% |
| Microphone Sensitivity | 10mV _{RMS} |
| Microphone Technology | Dynamic |
| Termination | Up to 2.5mm ² CSA conductors maximum |
| Location | Safe area |
| Weight | 0.25kg |
| Temperature Range | -30°C to +70°C |

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