ZMR120
TELEPHONE PAGING INTERFACE

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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.

The ZMR120 eliminates acoustic feedback that would otherwise occur due to proximity of a telephone handset and a PAGA loudspeaker.

The system allows the loudspeaker to be installed and wired on a "free topology" enabling placement within the vicinity of telephone handsets without risk of the detrimental effects of acoustic feedback.

ZIZTEL ZMR120 TELEPHONE PAGING INTERFACE

Dual redundant operation – *safety critical applications*

120 second voice store – *eliminates acoustic feedback*

Wide bandwidth – *High intelligibility*

The ZMR120 is a compact module designed to enable telephone handset subscribers to initiate broadcasts over a host PAGA loudspeaker system. The ZMR120 is connected to the site PABX telephone switch via a range of different interface options including 2 wire analogue subscriber (POTS), 2-wire E and M (4-wire E and M with optional hybrid transformer) and VOIP for Ethernet connectivity. The unit provides dual output drive capability to allow seamless integration into a range of mission critical A+B / N+1 and A+B N+2 host PAGA system architectures.

Telephone users are able to dial up the ZMR120 which is allocated a number in the PABX programming suite as if it were a telephone subscriber e.g. user dials 555 to make a paging announcement.

When called the ZMR120 routes the telephone handset to the on board voice processing system and a prompt tone is returned to the user confirming access to the interface. The user then delivers his message. This message is either broadcast live by the PAGA system loudspeakers or is held in a semiconductor store pending playback. In the event that the '*record voice*' route is configured then the playback of the message over the PAGA is delayed until the handset is returned on hook. This delay eliminates the detrimental effects of acoustic feedback due to proximity of the telephone handset to live PAGA loudspeakers.

Photo left shows VOIP adaptor option with ZMR120 motherboard

ZMR120 carries a pre-announcement chime generator which introduces an attention getting signal prior to message broadcast.

A real time monitor output allows a remote loudspeaker to be connected enabling the operator/control room to listen to all telephone initiated voice calls; an associated CENSOR push button allows the operator to then inhibit undesirable broadcasts which could otherwise be broadcast via the host paging system loudspeakers.

The ZMR120 is fitted with a switch array that enables the engineer to prescriber a number of different operational modes/features including zone prescription (allowing the user to steer paging to selected areas of the site), emergency/routine speech priority level assignment, paging message repeat and coded calling. A *review recording* feature can be switched enabled by the engineer. In this mode the user can listen to his recorded message prior to broadcast enabling the possibility to re-record the message or to alter the zone selection where targeted broadcasting is required.
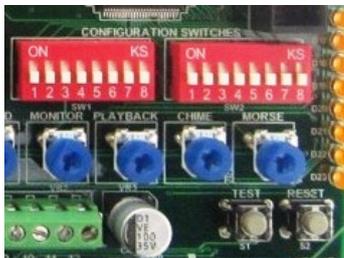
Configuration switches allow the engineer to prescribe VOIP, 2-/4-wire E and M, 2-wire POTS, pre-set time record 8 seconds, 16 seconds, 120 seconds, buzzer pre chime, gong pre chime, zone prescription, review/edit text.

Optional facilities are incorporated which allow the user to initiate coded alert Morse code tone signals via the paging system, in this execution telephone key pad digits are decoded in the ZMR120 and the equivalent Morse code tones are issued by the paging system loudspeakers upon return of handset on hook.

Technical Specification	
Supply	Universal 90-260V_{AC} 50/60Hz or 24V_{DC} and 48V_{DC}
Consumption	20VA/Watts
Message store time	120 seconds
Bandwidth	200Hz to 7kHz
Interface	2-wire POTs, 2-wire E and M; options: 4-wire E and M suffix ZMR120-4 and VOIP suffix ZMR120-IP
Output	ZEST PAGA compatible – single or dual host
Monitor real time	0.25 Watts into 80Ohm
Location	Safe area/internal
Temperature	-25˚C to + 70˚C
Weight	0.5kg
Dimensions	120mm x 180mm x 70mm
Enclosure	Surface mount rot proof plastic enclosure or DIL rail mount