

ZAP10-02

HAZARDOUS AREA MICROPHONE ACCESS UNIT



DS-061 Issue 04

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.

ZAP10-02 is a robust microphone access unit suitable for location in a potentially explosive atmosphere. The unit is fitted with single or duplicated noise cancelling dynamic hyper cardioid microphones to ensure high speech intelligibility in difficult acoustic conditions and to provide single fault tolerance in mission critical applications.

ZIZTEL ZEST ZAP10-02

ATEX and IECEx Certified microphone station access unit

IP66 rated robust rotproof polyester plastic enclosure

Dual microphones for A+B/N+1 PAGA architectures

The ZAP 10-02 is designed for reliable efficient operation in hostile climatic conditions and can be positioned in external exposed locations, the unit can be further protected by installation in a glazed secondary enclosure which also inhibits unauthorized usage and/or ensures operation only in emergency conditions.

For critical applications i.e. N+1 or A+B PAGA (public address and alarm system) packages the ZAP10-02 can be supplied with duplicated microphones and control push buttons to ensure single fault tolerance in redundant applications.

The unit comprises a robust, rotproof, ultraviolet light resistant enclosure which carries:

- Weatherproof momentary push buttons (large enough to be easily operated by a gloved hand)
- Single or duplicated noise cancelling microphone transducers

It is possible to equip the unit with up to five push button selectors. Critical buttons are fitted with hinged protective covers to prevent accidental operation. (Where additional controls are required specify ZAP10-02-XX).

Where the ZAP10-02 is used in PAGA applications, control push button 'cause and effect' can be configured to project specific requirements. Typical assignment for the ZAP10-02 is at muster point stations where *emergency* speech access and 'prepare to evacuate/abandon' alarm tone broadcasts can be initiated to all site loudspeakers. The station can be used in routine *operational* positions where talk back intercom/local low priority paging speech communications is required. The Zap10-02 can also operate in



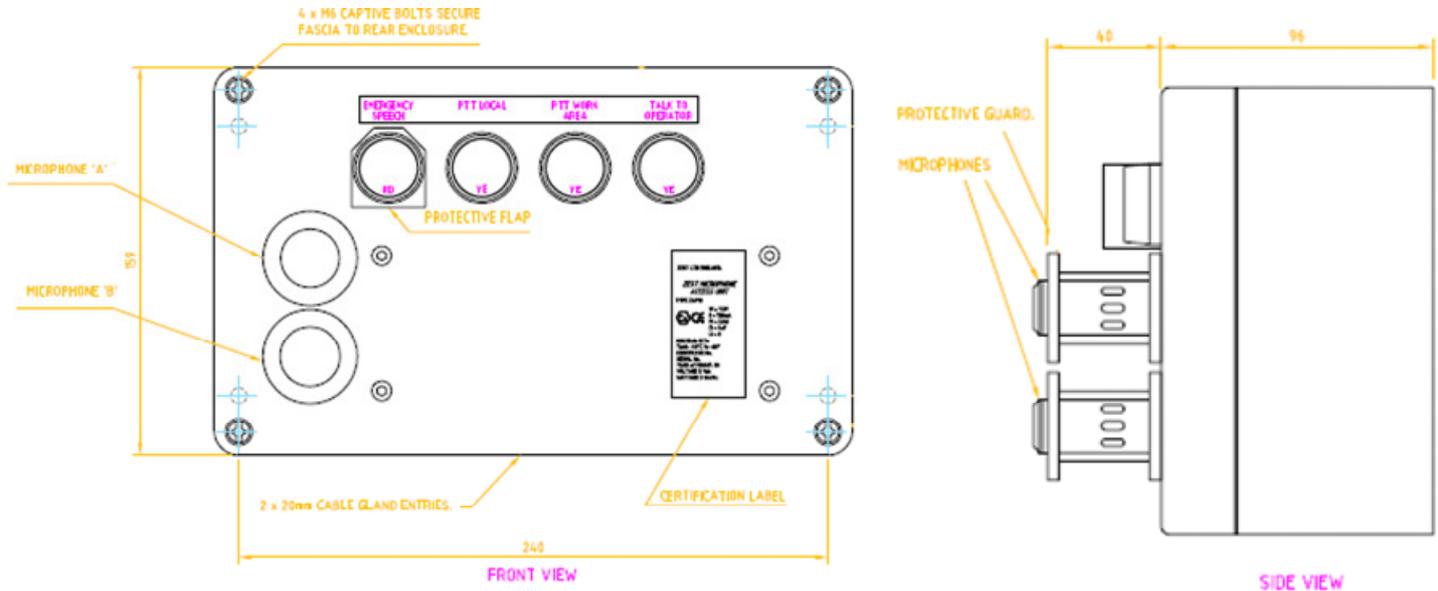
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conjunction with Zitzel MT50/MT50-20 explosion proof drillers talk back communication systems enabling high intelligibility speech in difficult acoustic conditions typical on a drill floor.

The protection concept is Ex i intrinsically safe and operation is in conjunction with certified safety barriers.



Typical ZAP10-02 general assembly drawing showing microphones and four operator dual circuit A+B Pushbutton Controls. Overall dimensions are unaltered for all ZAP10-02 executions.

The ZAP10-02 is ATEX and IECEx certified and can be fitted with up to five push buttons and two microphones.

Example: 2x microphone and 2x pushbuttons = ZAP10-02-22

1x microphone and 4x pushbuttons = ZAP10-02-41

Gooseneck mounted microphones can be specified as type G3 or G6

The ZAP10-02 can be located inside a Zitzel AH series hood which provides both shelter and excellent background noise rejection enabling high intelligibility speech in extremely noisy areas.



Photo shows ZAP10-02 Ex intercom/PAGA noise cancelling access unit fitted in an AH23-60079 Zitzel acoustic hood, keys are large enough to be operated with gloved hand, duplicated circuits for mission critical application.

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Goose Neck Versions :

ORDER CODE			
Model Code	Buttons	Microphones	Gooseneck Length (mm)
ZAP10-02-01G3	0	1	300
ZAP10-02-01G6	0	1	600
ZAP10-02-11G3	1	1	300
ZAP10-02-11G6	1	1	600
ZAP10-02-21G3	2	1	300
ZAP10-02-21G6	2	1	600
ZAP10-02-31G3	3	1	300
ZAP10-02-31G6	3	1	600
ZAP10-02-41G3	4	1	300
ZAP10-02-41G6	4	1	600
ZAP10-02-51G3	5	1	300
ZAP10-02-51G6	5	1	600
ZAP10-02-02G3	0	2	300
ZAP10-02-02G6	0	2	600
ZAP10-02-12G3	1	2	300
ZAP10-02-12G6	1	2	600
ZAP10-02-22G3	2	2	300
ZAP10-02-22G6	2	2	600
ZAP10-02-32G3	3	2	300
ZAP10-02-32G6	3	2	600
ZAP10-02-42G3	4	2	300
ZAP10-02-42G6	4	2	600
ZAP10-02-52G3	5	2	300
ZAP10-0252G6	5	2	600

Fixed Versions :

ORDER CODE		
Model Code	Buttons	Microphones
ZAP10-02-01	0	1
ZAP10-02-11	1	1
ZAP10-02-21	2	1
ZAP10-02-31	3	1
ZAP10-02-41	4	1
ZAP10-02-51	5	1
ZAP10-02-02	0	2
ZAP10-02-12	1	2
ZAP10-02-22	2	2
ZAP10-02-32	3	2
ZAP10-02-42	4	2
ZAP10-02-52	5	2



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ZAP10-02-42, 32 VARIANTS



ZAP10-02-51



Technical Specification	
Colour	Black RAL9011
Weight	3.75Kg
IP Rating	IP66
Enclosure	Glass fibre reinforced polyester with silicone (VMQ) gasket
Cover retaining bolts	Stainless Steel
Impact Resistance	7J
Ambient Temperature Range	-40°C to +60°C
Location	Zone 1 IIC T4 ATEX/IECEX
Maximum field cable conductor cross sectional area	2.5mm ²
Wall fixing centres	227mm x 238mm x M6
Gland Entries	25mm as standard (Option – 20mm, 32mm, 40mm to specification)
Microphone	Fixed or gooseneck mounted.
Pushbuttons	Momentary action
Cable glands	Not supplied unless specified
Response	Hypercardioid
Supply	5VDC Phantom powered
Application / configuration	Talk back intercom / PAGA – Single, N + 1, A + B, A + B/N + 2

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