

AP10-02

INDUSTRIAL MICROPHONE ACCESS UNIT

DS-197 Issue 03b



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 Military / Marine and Hazardous Oil, Gas / Petrochemical industries.

AP10-02 is a robust microphone access unit suitable for location in a marine or industrial location. 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.

ZITTEL ZEST AP10-02

*Heavy duty Industrial service –
Low through life maintenance*

*IP66 rated robust rotproof polyester plastic enclosure –
Corrosion resistant suitable for
external / marine applications*

*Optional Dual Microphones for A+B / N+1 PAGA
architectures – Safety critical applications*

The AP10-02 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 AP10-02 can be supplied with duplicated microphones and control push buttons to ensure single fault tolerance.

The unit comprises a robust, rotproof, ultra violet 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 which enable intelligible speech in difficult acoustic environments.



It is possible to equip the unit with up to sixteen (16) push button selectors. Critical buttons are fitted with hinged protective covers to prevent accidental operation. Where the AP10-02 is used in PAGA applications, control push button 'cause and effect' can be configured to project specific requirements. Typical assignment for the AP10-02 is at safe area located muster point stations where *emergency* speech access and 'prepare to evacuate/abandon'

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alarm tone broadcasts can be initiated to all site loudspeakers. The station can be used in routine *operational* positions where **talk back intercom** or local low priority paging speech communications is required. The AP10-02 can also operate in conjunction with Zitzel MT50 / 50-20 explosion proof drillers talk back communication systems enabling high intelligibility speech in difficult acoustic conditions typical on a drill floor.

The AP10-02 can be fitted with up to sixteen push buttons and two microphones.

Example: 2 x microphone and 2 x pushbuttons = AP10-02-22

1 x microphone and 4 x pushbuttons = AP10-02-41

Goose neck mounted microphones can be specified type G3 or G6



Fixed microphone versions:

ORDER CODE		
Model Code	Buttons	Microphones
AP10-02-01	0	1
AP10-02-11	1	1
AP10-02-21	2	1
AP10-02-31	3	1
AP10-02-41	4	1
AP10-02-51	5	1
AP10-02-61	6	1
AP10-02-71	7	1
AP10-02-81	8	1
AP10-02-91	9	1
AP10-02-101	10	1
AP10-02-5111	11	1
AP10-02-121	12	1
AP10-02-131	13	1
AP10-02-141	14	1
AP10-02-151	15	1
AP10-02-161	16	1
AP10-02-02	0	2
AP10-02-12	1	2
AP10-02-22	2	2
AP10-02-32	3	2
AP10-02-42	4	2
AP10-02-52	5	2
AP10-02-62	6	2
AP10-02-72	7	2
AP10-02-82	8	2
AP10-02-92	9	2
AP10-02-102	10	2
AP10-02-112	11	2
AP10-02-122	12	2
AP10-02-132	13	2
AP10-02-142	14	2
AP10-02-152	15	2
AP10-02-162	16	2

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Goose Neck Microphone versions:

ORDER CODE			
Model Code	Buttons	Microphones	Gooseneck Length (mm)
AP10-02-01G3	0	1	300
AP10-02-01G6	0	1	600
AP10-02-11G3	1	1	300
AP10-02-11G6	1	1	600
AP10-02-21G3	2	1	300
AP10-02-21G6	2	1	600
AP10-02-31G3	3	1	300
AP10-02-31G6	3	1	600
AP10-02-41G3	4	1	300
AP10-02-41G6	4	1	600
AP10-02-51G3	5	1	300
AP10-02-51G6	5	1	600
AP10-02-61G3	6	1	300
AP10-02-61G6	6	1	600
AP10-02-71G3	7	1	300
AP10-02-71G6	7	1	600
AP10-02-81G3	8	1	300
AP10-02-81G6	8	1	600
AP10-02-91G3	9	1	300
AP10-02-91G6	9	1	600
AP10-02-101G3	10	1	300
AP10-02-101G6	10	1	600
AP10-02-111G3	11	1	300
AP10-02-111G6	11	1	600
AP10-02-121G3	12	1	300
AP10-02-121G6	12	1	600
AP10-02-131G3	13	1	300
AP10-02-131G6	13	1	600
AP10-02-141G3	14	1	300
AP10-02-141G6	14	1	600
AP10-02-151G3	15	1	300
AP10-02-151G6	15	1	600
AP10-02-161G3	16	1	300
AP10-02-161G6	16	1	600
AP10-02-02G3	0	2	300
AP10-02-02G6	0	2	600
AP10-02-12G3	1	2	300
AP10-02-12G6	1	2	600
AP10-02-22G3	2	2	300
AP10-02-22G6	2	2	600
AP10-02-32G3	3	2	300
AP10-02-32G6	3	2	600
AP10-02-42G3	4	2	300
AP10-02-42G6	4	2	600
AP10-02-52G3	5	2	300
AP10-0252G6	5	2	600

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AP10-02-61G3	6	2	300
AP10-02-61G36	6	2	600
AP10-02-71G3	7	2	300
AP10-02-71G6	7	2	600
AP10-02-81G3	8	2	300
AP10-02-81G6	8	2	600
AP10-02-91G3	9	2	300
AP10-02-91G6	9	2	600
AP10-02-101G3	10	2	300
AP10-02-101G6	10	2	600
AP10-02-111G3	11	2	300
AP10-02-111G6	11	2	600
AP10-02-121G3	12	2	300
AP10-02-121G6	12	2	600
AP10-02-131G3	13	2	300
AP10-02-131G6	13	2	600
AP10-02-141G3	14	2	300
AP10-02-141G6	14	2	600
AP10-02-151G3	15	2	300
AP10-02-151G6	15	2	600
AP10-02-161G3	16	2	300
AP10-02-161G6	16	2	600

The AP10-02 can be located inside a Zitel AH series hood which provides both shelter and excellent back ground noise rejection enabling high intelligibility speech in extremely noisy areas. The following charts detail order code versus model description. Refer to Zitel model ZAP10-02 series and MG600 for hazardous area Zone 1 / 2 explosion proof microphone options.



Photo shows AP10-02 in an AH23 Zitel acoustic hood

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Technical Specification	
Colour	Black RAL 9011
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 +70 °C
Location	Safe Area Marine or Heavy industrial
Maximum field cable conductor cross sectional area	2.5mm ²
Dimensions	150 x 250 (up to five push buttons) 255 mm x 250 mm (up to 16 push buttons)
Gland Entries	25mm as standard (Option - 20, 32, 40mm to specification)
Microphone	Fixed or goose neck mounted.
Response	Hyper cardioid noise cancelling
Pushbuttons	Momentary action
Cable glands	Not supplied unless specified
Response	Hyper cardioid
Supply	5VDC Phantom powered
Application / configuration	Talk back intercom / PAGA – Single, N + 1, A + B, A + B / N + 2

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