

# MG600EXI BARRIER UNIT

## MICROPHONE SAFETY BARRIER

DS-263 Issue 02



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 Ziztel MG600 EX i microphone must be used in conjunction with a barrier device which limits electrical energy to the microphone circuit to a level too low to ignite a potentially explosive atmosphere. The barrier can be supplied in a protective enclosure eliminating the requirement to be located in a safe area.

### ZIZTEL MG600 EXI ZONE 1 MICROPHONE SAFETY BARRIER

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*ATEX certified suitable for Zone 1 hazardous areas – safe for use in a potentially explosive atmosphere*

*Eliminates requirement for 'safe area' located apparatus*

*Allows use of non-intrinsically safe field cable circuits – simplifies installation*

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The MG600EXi hazardous area microphone unit enables speech transmission from a potentially explosive atmosphere. Where no safe area is conveniently available to locate the necessary microphone safety barrier module, Ziztel are able to provide a compact Zone 1 ATEX certified assembly. The unit comprises of a corrosion resistant, light weight, compact EX d type explosion proof certified enclosure which carries the microphone protection barrier thereby removing requirement for a safe area. A single screened twisted *intrinsically safe* cable pair interconnects the MG600EXi microphone to the barrier box and a second non intrinsically safe cable connects the barrier box in turn to central amplifier system. A second barrier set can be fitted to allow the use of a push to talk switch if required.



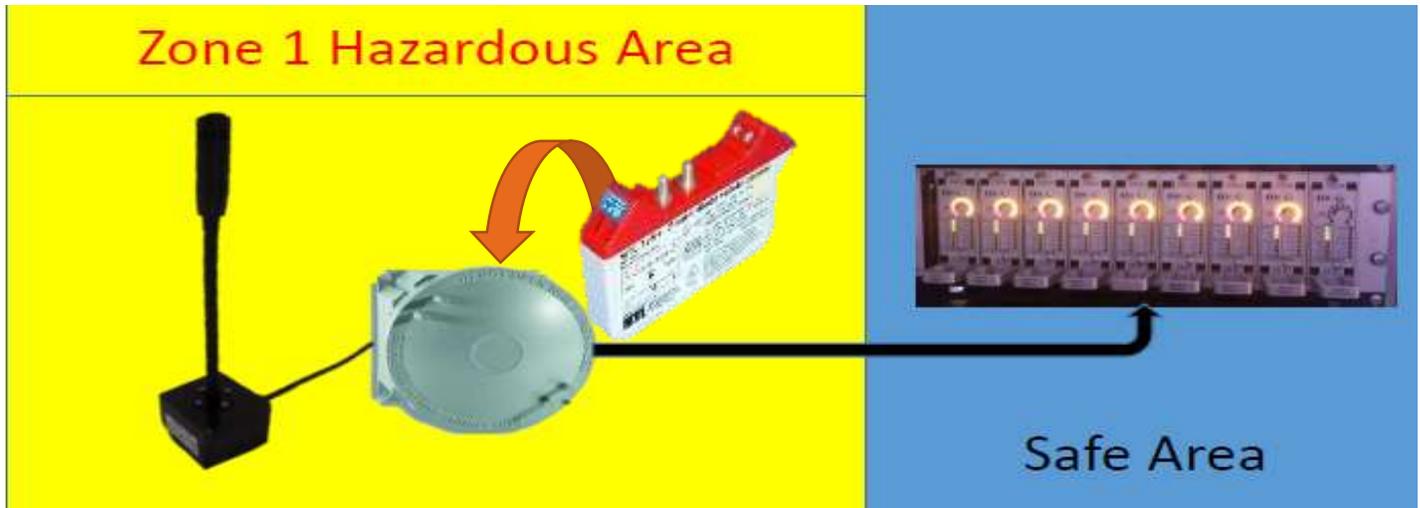
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MG600EX i goose neck mounted microphone shown connected via a local MG600 Barrier EX d enclosure. The cable connected to the safe area located amplification can now be a non-intrinsically safe circuit.



Technical Specification	
Supply	No local supply required
Barrier voltage	Maximum 7V5
Barrier power	Maximum 1.4 Watts
Enclosure Material	LM6 marine grade alloy
Dimensions	150mm x 150mm x 150mm
Weight	5kg
Certification	ATEX Zone 1 IIC T4 Zone 1
IP Rating	IP66
Gland entry	2 x M20 isometric
Microphone connection	Intrinsically safe Exi
Output connection	Explosion proof Exd
Maximum cable conductor size	1.5mm <sup>2</sup> cross sectional area per conductor

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