MG600 Ex i

IS EXPLOSION PROOF MICROPHONE

DS-212 Issue 07

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.

Consequently our products are very robust and designed to comply with international standards. MG600 Ex i is an ATEX certified microphone which enables convenient location in confined spaces. The capsule is noise cancelling enabling efficient use on an industrial application.

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

MG600 Ex i INTRINSICALLY SAFE EXPLOSION PROOF MICROPHONE FOR ZONE 1 / 2 AREAS

ATEX certified – Safe in Zone 1 or 2 hazardous area locations

Cardioid noise cancelling – High intelligibility speech

Mounting options – Fixed or gooseneck mounted

Compact Design – Use in confined spaces

The MG600 Ex i is a dynamic noise cancelling microphone which can be located in a potentially explosive atmosphere when used in conjunction with a certified Ex i intrinsically safe barrier.

The MG600 Ex i unit is certified allowing use in a diverse range of applications including crane cabs, drilling installations, onshore/offshore petrochemical sites. The MG600 is field proven in aggressive climatic locations and features a dynamic hyper cardioid noise cancelling response enabling intelligible speech in areas of high noise. The unit can be fitted onto a flexible 'gooseneck' stem, fixed or panel mounted as required enabling convenient installation in very confined spaces.

The rugged ATEX certified MG600 microphone transducer as used in all variants of the MG600 Ex i

Type MG600Exi–E	'Stubby' microphone on termination enclosure
Type MG600Exi–F *	'Stubby' microphone for panel mounting
Type MG600Exi–G200	Standard 200mm gooseneck microphone on termination enclosure
Type MG600Exi–G250	Standard 250mm gooseneck microphone on termination enclosure
Type MG600Exi–G600	Long reach 600mm gooseneck microphone on termination enclosure
Type MG600Exi-P *	250mm gooseneck microphone with flange for panel mounting
Type MG600Exi–S *	'Stubby' microphone for slotted bracket mounting
* Note: *These models do not come with a termination box as standard. Remote termination box MG600Exi-TB can be supplied as an optional extra.*	

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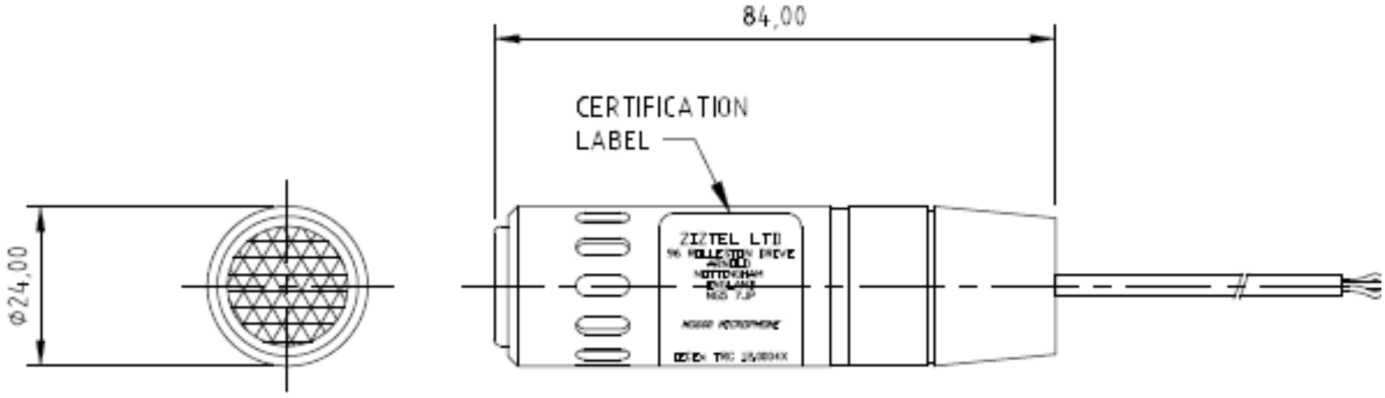
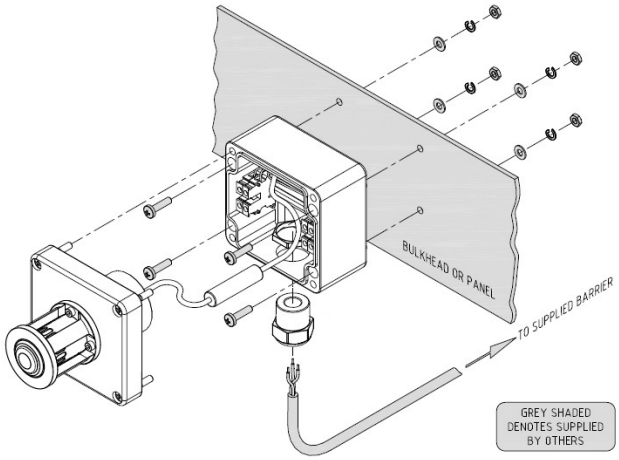
The MG600 Ex i can be used in conjunction with Ziztel DAS series of explosion-proof audio amplifiers or Ziztel MT50 drillers talk back amplifier to realise a complete Zone 1 hazardous area stand-alone paging system. A typical example is a crane cab shout system which is located in a hazardous area, the arrangement would then consist of a DAS01 Ex amplifier, explosion-proof horn (sited outside the cab) to project to the immediate area and an MG600Exi-G600 gooseneck microphone.

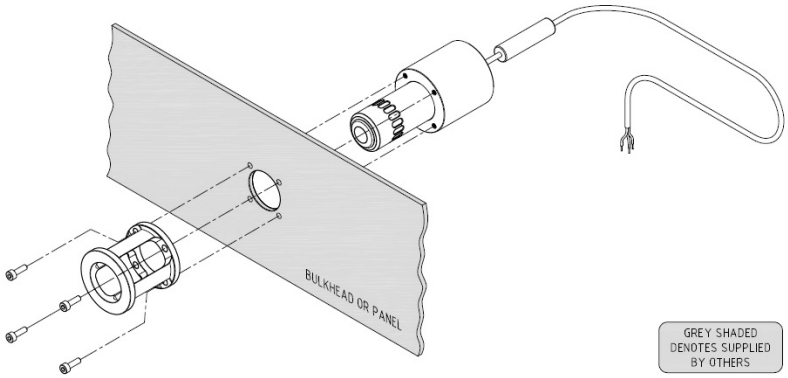


GENERAL ARRANGEMENT

MG600Exi-E



MG600Exi-F



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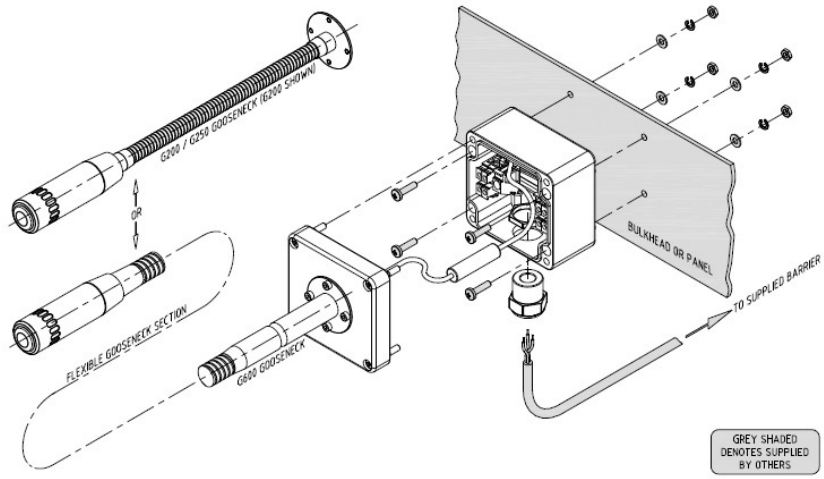
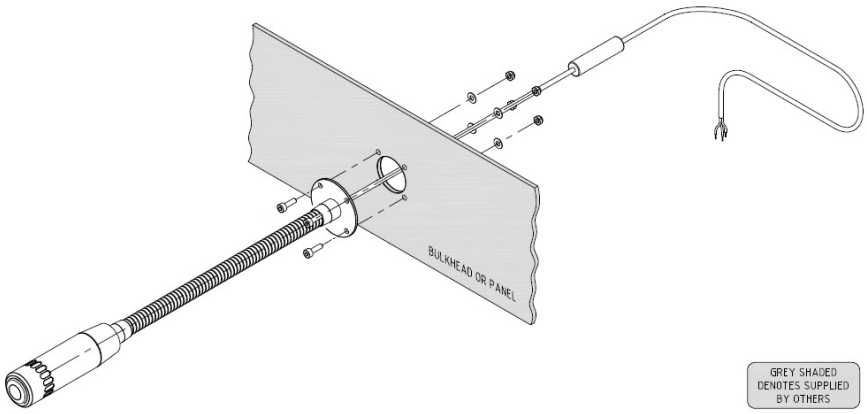
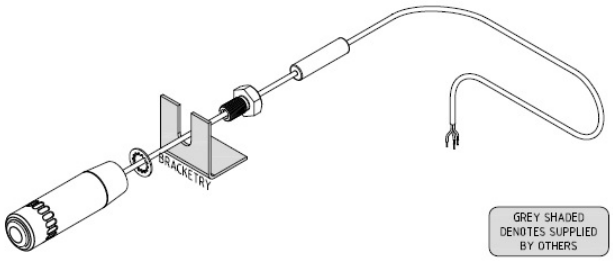
MG600Exi-G200/G250/G600



MG600Exi-P



MG600Exi-S



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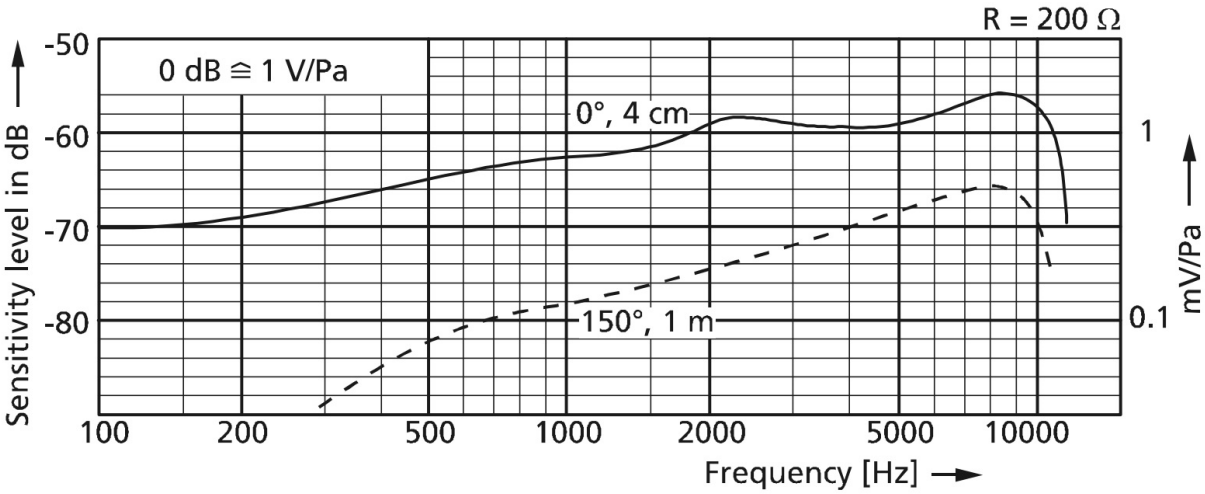

MG600Exi–G250 model

MG600Exi–E model

MG600Exi-P model

Technical Specification	
Transducer	Dynamic
Impedance	Nominal 600Ω
Output Voltage	10mV
Frequency response	100Hz – 10kHz
Response	Hypercardioid
Termination	Integral non-flame retardant flexible cable tail 300mm
Dimensions	Microphone capsule only Ø24mm x 84mm G200, G250, G600 and E model mounting enclosure 80mm x 80mm x 55mm G200, G250, G600 and P model gooseneck 200mm, 250mm, 600mm and 250mm respectively F model panel mounting Ø40mm x 40mm both above and below panel P model panel mounting Ø40mm x 16mm(max) below panel S model slot mounting 10mm wide x 10mm(min) deep slot, and 8mm(max) bracketry material thickness
Certification	Zone 1 II C T4 ATEX certified
Barrier	Ex i shunt safety barrier 1.4W rated 7.5V

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