

MT50-02-G2-C

MT50 EXPLOSION PROOF DESK / CONSOLE
MOUNT SUBSCRIBER TALKBACK STATION



DS-178 Issue 02

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 the Hazardous Oil, Gas and Petrochemical industries. The MT50-02-G2-C is a console mount explosion proof talk back subscriber station with integral Ex loudspeaker, headset socket and goose neck microphone. The panel can be fitted with a socket outlet permitting connection of an Ex i headset assembly. The panel is safe to operate in a Zone 1 or 2 hazardous area.

Please do not hesitate to contact us for further information.

ZITTEL MT50-02-G2-C

Explosion-proof - Zone 1 or 2 hazardous area location

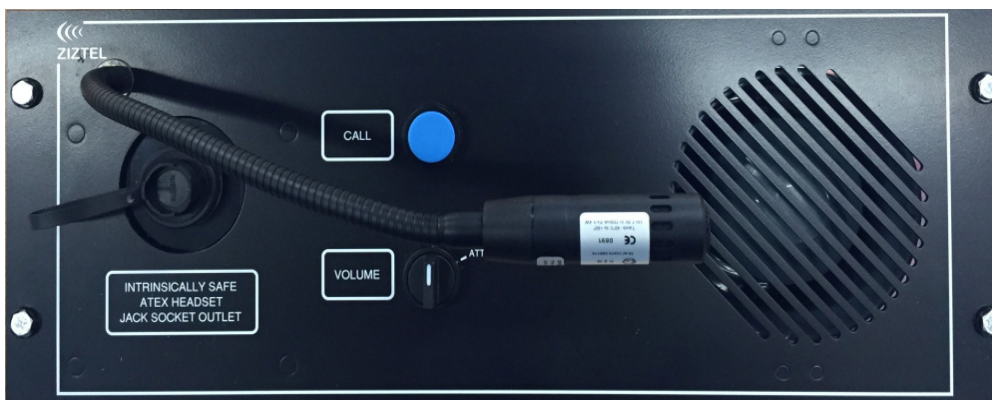
*Console/Desk internal mounting –
Control room/Office location*

*Integral 8Watt Ex de explosion-proof
loudspeaker – Intelligible speech*

*MG600 Ex i gooseneck mounted intrinsically safe
Ex i microphone – Background noise rejection*

*Option for Ex i Headset with auto speaker mute
capability – Private two-way communications*

The Zitel MT50-02-G2-C is a 4U high, industry standard 19inch desk/console talkback subscriber panel designed to allow two-way voice communications in a hazardous atmosphere. The unit is designed for operation with Zitel MT50/MT50-20 talkback intercom switches.



The unit consists of a robust steel panel which carries an integral flush fit explosion proof loudspeaker horn, operator call and speaker hi/lo volume control keys plus a noise cancelling flexible swan neck mounted intrinsically safe microphone assembly.

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Unit above features ATEX headset socket, volume control, push-to-call key, microphone and integral loudspeaker.

The unit can be fitted with an Ex i headset outlet allowing private non-loudspeaking communications possibility. Connection of the headset facility automatically disables the integral loudspeaker and panel mounted microphone transducers.

Connectivity between host central equipment rack and access unit position carries the panel supply voltage, thus eliminating dependence on local power supply sources. A local bulkhead mount Zone 1/Zone 2 explosion-proof ATEX enclosure carries the panel safety barriers enabling use of non-intrinsically safe cabling from subscriber to central exchange location.

Bespoke access control panels can be engineered to client specification, including special finishes, optional push button controls, duplicated Ex microphones.

Typical applications include:- muster intercom (See also DASo4 Ex muster intercom amplifier) drillers talkback systems, refinery/tanker loading talkback systems.

Technical Specification	
Power Supply Voltage	Phantom powered from central exchange. No local power required
Microphone	Explosion-proof intrinsically safe noise-cancelling hypercardioid mounted on a gooseneck stem:- type MG600 Ex i
Flexible microphone stem	Up to 600mm length according to specification
Call control button	Momentary action key
Volume control	High/Low latching selector
Operation	Hands free simplex – priority given to the master position
Loudspeaker	Explosion proof 100V line rated 8Watts
Headset connection	6 pole Buccaneer socket to allow Ex i headset with boom microphone connection
Headset / speaker selection	Automatic when headset plugged in
Material	Mild steel finish paint epoxy
Colour	Black semi-gloss with white legends
Frequency Response	150Hz to 10kHz
Weight	~10Kg
Dimensions	178mm High x 300mm Deep x 483mm Wide
Operation Temperature Range	-20°C to +50°C
Service Location	Internal / Zone 1/2 Area

Local volume control and/or extension Ex i headset can be specified where required.



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