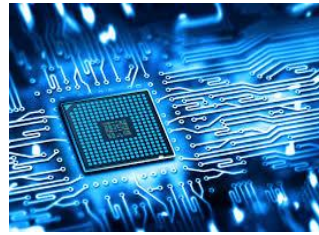


# CRANE PUBLIC ADDRESS

TDS-002 Issue 01 Zitzel Technical Bulletin



Thank you for your interest in Zitzel - 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.

A common requirement is the ability for a crane operator to issue speech instructions to operatives working on the decks.

The Zitzel DAS05 series of industrial high power amplifiers allow a wide range of system options including marine only applications through to fully explosion proof solutions where safe operation is required in a Zone 1 or 2 atmosphere. This bulletin describes the DAS05 in a crane cab public address application which enables the operator to deliver high power public address paging instructions via re entrant projector horn loudspeakers from either a long reach goose neck mounted microphone or light weight noise cancelling headset. A range of mains supply voltages enable operation from 24 VDC through to Universal 110 to 240 VAC 50 / 60 Hz.



## ZITTEL CRANE CAB LOUDSPEAKER SHOUT SYSTEM

Zitzel are able to offer a reliable, efficient and cost effective solution for delivering live voice paging from a manned crane cab position to persons in the immediate vicinity of crane operations.

The system comprises of the following hardware –

**Inside the crane cab** – ‘long reach’ goose neck mounted microphone and heavy duty momentary action ‘push to talk’ sprung foot switch.

**Outside the crane cab** – projector horn loudspeaker –s ranging from 15 Watt to 50 Watts output enabling effective high clarity voice coverage to the deck area in a range of ambient noise conditions.

DAS05 series 50 watt high power industrial amplifier unit is mounted either inside or outside the cab depending on project specific requirements. The system is energized at the DAS05 position from mains input supply voltages including 24 VDC / 48 VDC and 110 VAC / 240VAC 50 /60 Hz rated 100VA.

The range includes for both safe area and hazardous area located equipment with appropriate ATEX certification for system operation in a potentially explosive atmosphere.

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For safe area / marine applications the system is based on the DAS05 central unit with choice of either MG400 goose neck microphone or PRO8H headset microphone; for Zone 1 or 2 potentially explosive areas the DAS05 Ex central unit and associated ancillaries are ATEX specified. Installation is simple and employs a **non-special single pair screened cable** throughout, for hazardous area system execution the cable is selected to ensure mechanical protection at all times.

## SAFE AREA SYSTEM EXECUTION – Marine and Industrial sites



The DAS05 safe area central amplifier and control unit is designed for either external or internal bulk head mount location and is rated IP55. (See DS251)



The MG400 is a noise cancelling microphone transducer fitted to a flexible goose neck stem. This compact microphone can be positioned on a conveniently located panel or terminal box inside the cab. (See DS027)



An option is to replace the MG400 with a Zitel PRO8H headset style microphone that allows the operator greater freedom. This robust light weight unit fits underneath a standard safety helmet and features a noise cancelling response, the assembly is supplied with a mini XLR plug to allow convenient service. (See DS269)



The FKS-01 industrial foot switch is fitted inside the cab and enables operator speech to be broadcast when depressed. (See DS141)



High power safe area projector speaker type PH25T provides excellent speech broadcast clarity enabling intelligible broadcasts over a wide target area. Two PH25T horns can be fitted to a single DAS05 amplifier unit. The PH25T is specifically designed for aggressive marine / industrial service and provides excellent performance over a wide range of climatic conditions. (See DS161)



JB1 Weatherproof junction boxes allow multiple loudspeaker installation. (See DS066)

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## HAZARDOUS AREA SYSTEM EXECUTION – Potentially explosive atmospheres



The DAS05 Explosion proof ATEX unit is designed for either external or internal hazardous area location and is rated Zone 1 / 2 IIC T4 IP66. (See DS268)



The MG600Exi ATEX certified long reach goose neck mounted microphone is supplied either with attached termination box or, for really confined spaces, the goose neck assembly can be supplied with a remote termination box enabling simple panel mounting. (See DS263)

The FSK-01Ex explosion proof ATEX certified foot switch allows operator speech broadcast when depressed, an all stainless steel and polyester rot resistant construction ensures long trouble free service life. (See DS093)



Up to three DSP15-15 EXMNT corrosion resistant explosion proof ATEX loudspeakers can be connected to the DAS05Ex amplifier allowing highly effective public address to the immediate target area. The unit is industry standard 100 Volt line compatible. (See DS179)



The PL512 Exe ATEX junction box allows multiple loudspeaker distribution. (See DS067)

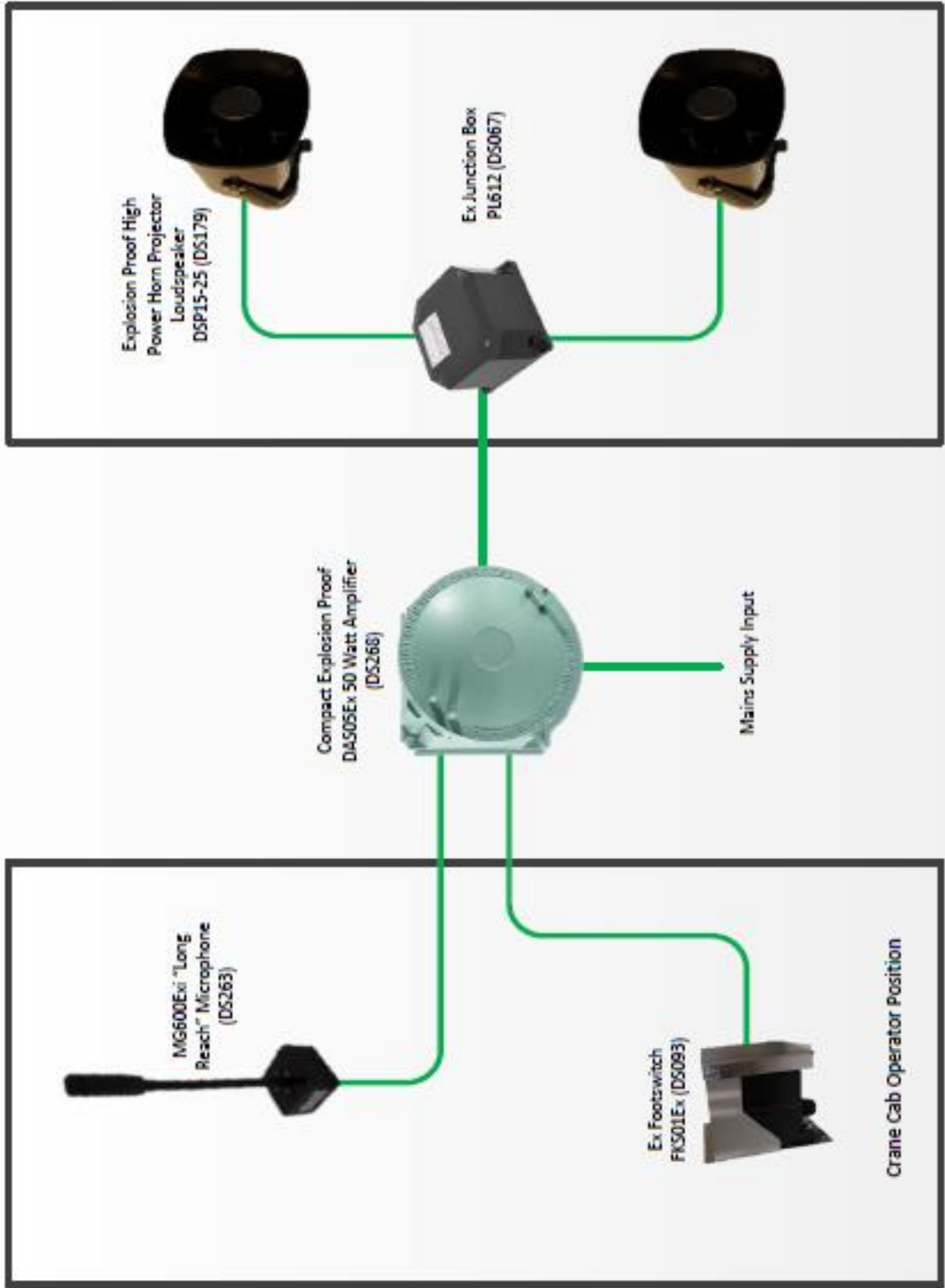
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# Hazardous Area Crane Cab Ex Paging System

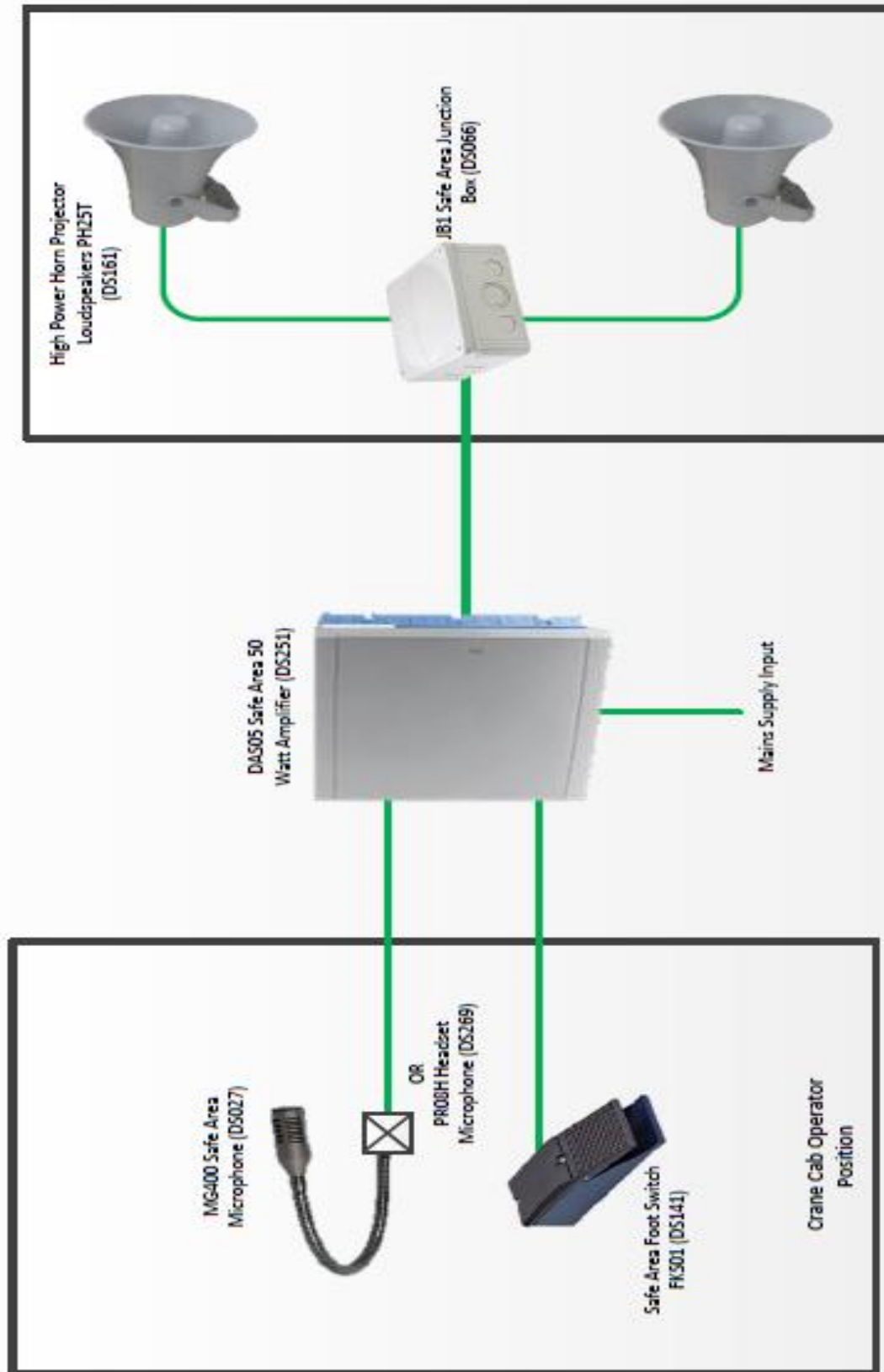


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# Safe Area Crane Cab Paging System



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