

# DAS-01 SAFE POWER AMPLIFIER

## 30W FIELD AMPLIFIER



DS-261 Issue 03

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.

DAS01 is a safe area located power amplifier suitable for expanding existing PAGA / Paging loudspeaker circuits or as a stand-alone amplifier in applications such as crane shout systems, small public address systems. DAS01EX option is available for use in potentially explosive atmospheres.

### ZITTEL DAS-01 AUDIO POWER AMPLIFIER

*Integrated 30 Watt audio power amplifier – 100 or 70 Volt line output*

*Direct termination of field cables- eliminates local junction box*

*Short / open proof output stage – Suitable for industrial applications*

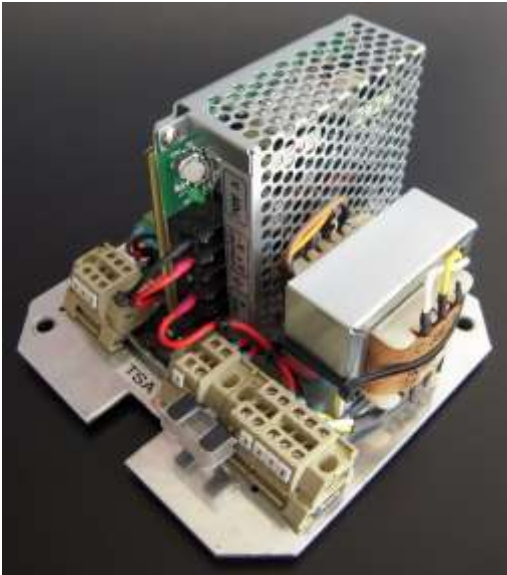
Zitzel DAS-01 is a high power industrial audio amplifier designed specifically for service in an industrial application.

The DAS01 unit is available in two models:

- DAS-01 Safe is an industrial pattern unit for use in safe areas
- DAS-01Ex is designed to allow use in Zone 1 hazardous areas and is available with either ATEX or NEC certification, (see datasheet DS053).

The DAS-01 consists of a compact bulkhead mount explosion proof enclosure which houses a powerful 30 Watt amplifier which can drive single or arrays of standard 100 Volt line loudspeakers. The DAS-01 is energised by AC mains supply input with option available for +24V<sub>DC</sub> / 48 V<sub>DC</sub> supply. The DAS-01 can be used in conjunction with page/party handset(s) to allow a complete voice/alarm broadcast/intercommunication system based on distributed amplification or can be used stand alone for small local area paging / public address systems in conjunction with MG400 microphone. Cable entry to the DAS-01 is by pre-cut 20 mm penetrations as follows:

- |                                |        |
|--------------------------------|--------|
| • Field cable loudspeaker loop | In/Out |
| • Field cable loudspeaker loop | In/Out |
| • Power Supply                 | In     |
| • Audio Input                  | In     |

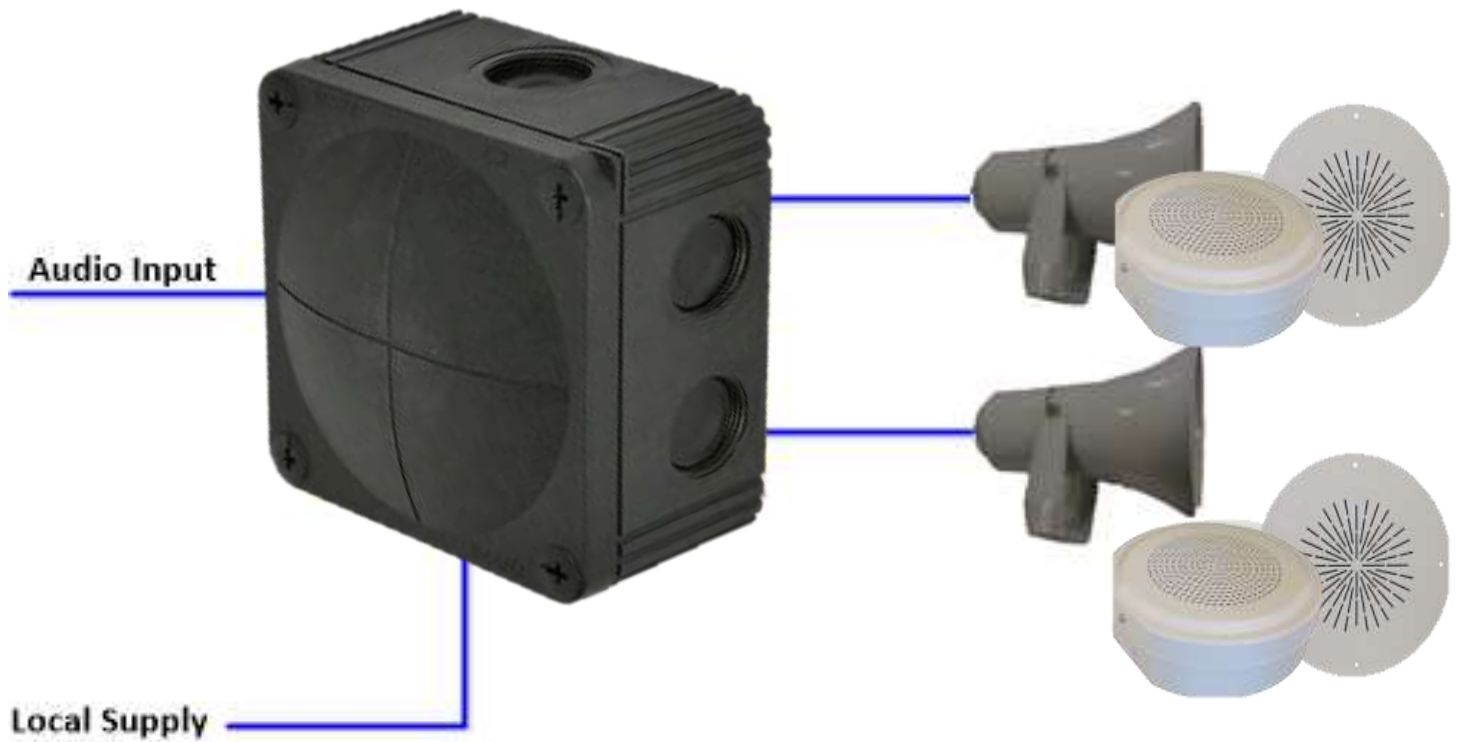


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Mini-DIN rail mounted terminal blocks ensure that there are secure replaceable screw-clamp terminals for each cable input. The DAS-01 can be energised locally or can derive common +24 /48 V<sub>DC</sub> power from a centralised distribution panel.



Technical Specification	
Supply	90 – 240 VAC 50 / 60 Hz (+24V <sub>DC</sub> / +48V <sub>DC</sub> to order)
Tolerance	+/-10%
Consumption maximum	30 VA / Watts
Consumption quiescent	3 VA / Watts
Frequency Response -3dB points	150Hz – 15kHz
Distortion THD	>2%
Regulation	>1dB
Input sensitivity	0dBm
Output	100 Volt line (70 V line to order)
Output power maximum	30Watts <sub>PEAK</sub>
Material	Corrosion resistant plastic
Dimensions	150mm x 150mm x 100mm
Weight	3kg
Certification	Safe area only
IP Rating	IP55

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