

ZADS-ZLSM-EX

HAZARDOUS AREA ADDRESSABLE LOUDSPEAKER OUTSTATION



DS-114 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 Military, Marine and the Hazardous Oil / Gas Petrochemical industries. Our products are very robust and designed to comply with international standards. The ZADS system described in this data sheet enables the user to monitor individual loudspeaker devices including voice coils as well as allow convenient alteration of speaker sound pressure level.

ZITTEL ZADS-ZLSM-EX



Automatic loudspeaker supervision -
Eliminates costly routine speaker patrols

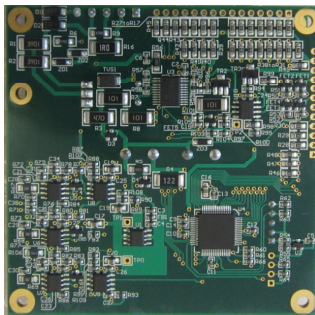
Enhances safety - Major
improvement in system security

Flexible loudspeaker interfacing - Can be
used with a range of loudspeaker types

The Zitel ZADS-ZLSM-Ex is an ATEX Zone 1 certified addressable loudspeaker management outstation which eliminates the routine loudspeaker checking patrols necessary on a high security PAGA broadcast system. The unit comprises of a rugged corrosion resistant enclosure housing a microprocessor based supervisory subsystem which communicates with the host central equipment over the standard loudspeaker field cable conductors; no additional cable/cores are required to operate ZADS system.

The inclusion of Zitel ZADS technology enables checking of the entire critical path from central panel to individual loudspeaker voice coil and is specified for mission sensitive life safety PAGA broadcast systems. Each ZADS-ZLSM outstation incorporates a microprocessor subsystem which not only provides ultimate dynamic speaker checking at voice frequencies but also allows remote speaker volume tapping and recovery of acoustic data from each loudspeaker location.

The unit operates in conjunction with Zitel ZMIS GUI core which remotely displays individual speaker outstation status providing an early warning of system deterioration.



ZITTEL LIMITED

email: sales@zittel.com web: www.zittel.com tel: +44 (0) 115 9202888
mail: 96 Rolleston Drive, Arnold, Nottingham, NG5 7JP United Kingdom

The unit requires no local power supply and both data communications and phantom power supply are derived over the established loudspeaker field cable without requirement for additional cable cores. Testing is executed 'in band' ensuring reliable fail safe results and eliminating 'ghost' fault reports common with legacy systems.

Up to fifty ZADS-ZLSM-Ex stations can be connected to a single ZEST 350A/SR2000 amplifier 70V/100V speaker line enabling comprehensive loudspeaker subsystem verification in seconds. Multiple terminals are provided to allow field cable 'loop-through' eliminating local loudspeaker junction boxes, sufficient terminals are fitted to facilitate landing of up to 2 field cable pairs where client specification detail spare cable conductors.

Technical Specification	
Amplifier Line Voltage	Compatible with 70V/100V line loudspeaker distribution networks
Maximum number of ZADS-ZLSM stations	50 x ZADS-ZLSM devices per loudspeaker line
Power Consumption	1 Watt maximum
Test Frequency	1 kHz in band voice
Maximum cable conductor size	1.5mm to 2.5mm CSA with loop through capability
Tapping assignment	Type 1 and 2 speaker transformer tapping arrangements ('common' terminal and taps 'between' terminals)
Material	Corrosion resistant alloy
Finish	Marine grade semi-gloss epoxy paint
Dimensions	150mm x 150mm x 120mm
Weight	1.8kg
Ambient temperature range	-20°C to + 50°C
IP rating	IP66
Location	Zone 1 IIC T4 hazardous area
Fittings	316g stainless steel
Stainless Steel Enclosure 316g option	ZADS-ZLSM-EX- suffix 'S'

ZADS-ZLSM- Ex can be delivered with project specific stainless steel 316g brackets / enclosure and colour finish.

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 mail: 96 Rolleston Drive, Arnold, Nottingham, NG5 7JP United Kingdom

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