

ZADS-ZLSM-SAFE

SAFE AREA ADDRESSABLE LOUDSPEAKER OUTSTATION



DS-113 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 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-SAFE

Automatic loudspeaker supervision -
Eliminates costly routine speaker patrols

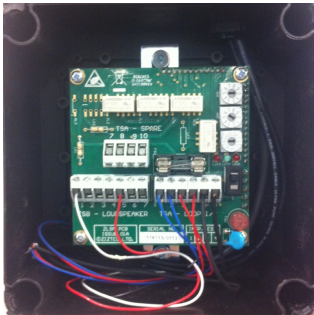
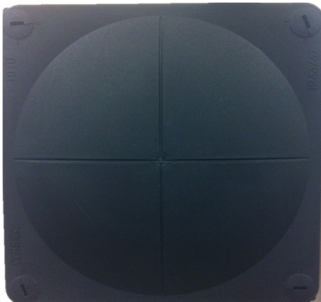
Enhances safety – Major
improvement in system security

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

The Zitzel ZADS-ZLSM-SAFE is an industrial safe area addressable management outstation which automatically checks the associated loudspeaker thereby eliminating the routine patrol checks 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 Zitzel 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 Zitzel ZMIS GUI core which remotely displays individual speaker outstation status providing an early warning of system deterioration.



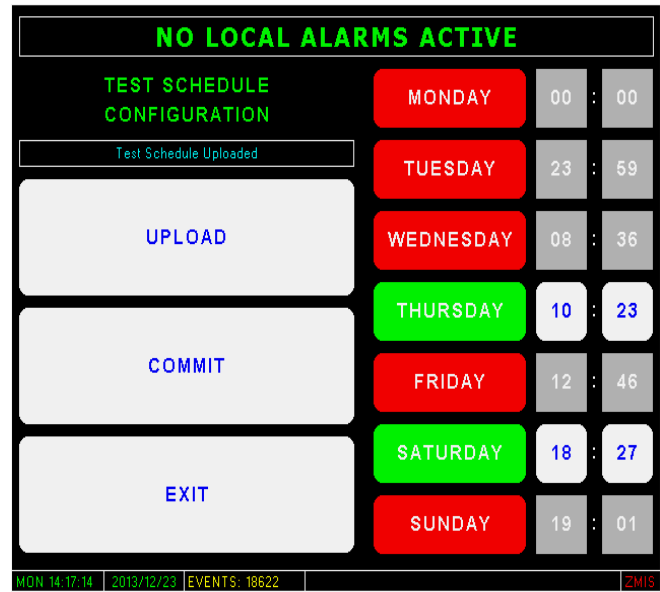
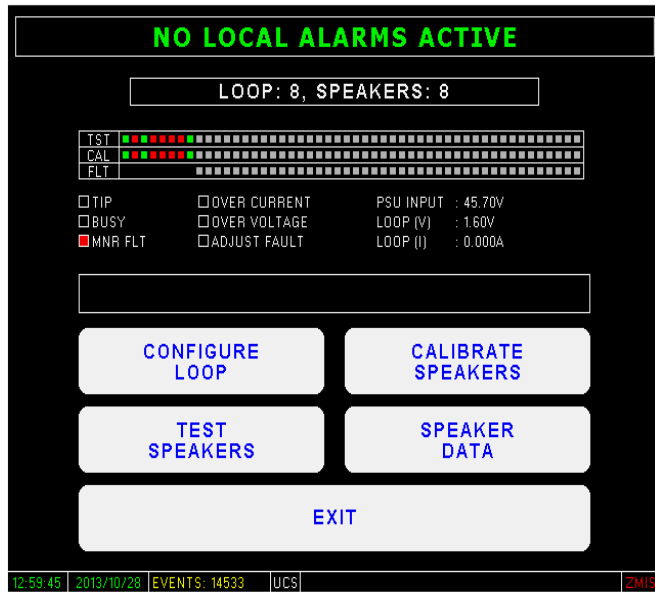
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The unit requires no local power supply with both data communications and phantom power supply derived over the established loudspeaker field cable without requirement for additional cable cores. Testing is executed 'in band' ensuring reliable results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

Up to fifty ZADS-ZLSM 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 two field cable pairs where client specification detail spare cable conductors.



ZADS-ZLSM- SAFE can be delivered with project specific stainless steel 316g brackets/enclosures and colour finishes as required.

Technical Specification	
Amplifier Line Voltage	Compatible with 70V/100V line loudspeaker distribution networks
Maximum number of ZADS stations	50 x ZADS devices per loudspeaker line
Power Consumption	1 Watt maximum
Test Frequency	1kHz in band voice
Maximum cable conductor size	1.5mm ² to 2.5mm ² CSA with loop through capability
Tapping assignment	Type 1 and 2 speaker transformer tapping arrangements ('common' terminal and taps 'between' terminals)
Material	Rot proof plastic
Finish	Natural charcoal black
Dimensions	125mm x 125mm x 120mm
Weight	0.5kg
Ambient temperature range	-20°C to + 70°C
IP rating	IP66
Location	External safe area
Fittings	316g stainless steel
Option Stainless Steel 316g enclosure	ZADS-SAFE- suffix S

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