



DATA SHEET DS64-02

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ZC LOUDSPEAKER ZONE CONTROLS

ZC.5 5 ZONE

ZC.10 10 ZONE



When planning larger sound systems it is often necessary to split the loudspeaker network into several zones so that each may be operated in a manner appropriate to that zone. For example, zones with paging only or music only or time signal requirements which may be necessary for factory office and work areas, restaurant, bar and foyer areas of hotels, and alarm zones in industrial complexes. The incorporation of a ZC series zone control unit enables comprehensive management of individual loudspeaker zones both from the ZC front panel switches and remotely from, for example a time clock or zone selection paging microphone. Individual, combination, and all-call switching control is provided at both locations and in all cases, any remotely initiated action automatically cancels the entire switch selection.

Each unit will accommodate one 100V line input signal, providing five or ten controlled outputs, double pole switched by substantial relays, and input and individual outputs will safely carry and switch 800W RMS continuous.

Remote switching is by returns to the common 0V rail level or priority sink output of a Mustang amplifier, and all circuitry within the ZC units is free of earth to avoid earth loop problems.

The standard ZC circuitry includes internal DC fuse protection, reverse polarity protection, back EMF suppression, and diode isolation between switch circuits. Internal circuitry and construction utilises the finest components and materials, and finish and appearance matches all Mustang amplification equipment. The range is designed for standard 19" rack mounting and internal layout ensures convenient servicing access. Output relays are of a fully enclosed design to prevent ingress of contaminants and corrosive atmospheres.

MAIN FEATURES

- 5 or 10 zone models
- Single amplifier or dual amplifier operation
- Robust double pole switching for total isolation
- Spare clean switching contact set per zone
- Laced cableforms throughout
- Substantial output relays for long life
- Low-level control inputs
- Generous individual and over-all power ratings
- Robust electro-mechanical design
- AC and DC supply input
- Stabilised DC auxiliary output
- Wire ends or spade connections

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TECHNICAL SPECIFICATION

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	ZC.5	ZC.10
Output zones	5	10
Power handling capacity per zone	500 Watts	500 Watts
Power input capacity	800 Watts paging plus 800 Watts music	
Input circuits	One 100V line paging (may include background music material)	
	One 100V line background music programme	
Mode "A" operation	Single amplifier provides paging and music. Paging to any zone mutes the music in all zones	
Mode "B" operation	Two amplifier mode: One for paging and one for music, operating simultaneously. Music remains in any zone not specifically paged.	
Paging control inputs	5 & "All-Call"	10 & "All-Call"
Control configuration	Taking control to 0V operates zone(s)	
Control current	1mA per zone - from 24V internal source	
Control input connector	25pin D connector (female). Mating connector supplied	
Spare contact switching capacity	2A per zone. Contacts free of earth	
Audio input and output and DC connections	4BA (M3.5) barrier terminals to suit wire ends, spades or rings	
Auxiliary DC output	Nominally +24V. Maximum 1A total load. Fused F1A 20mm	
DC supply requirement	200mA plus Aux DC load	400mA plus Aux DC load
DC input voltage supply limits	19-28V DC. Fused F1A	
AC Mains supply requirement	200/260V AC 50/60Hz 25VA	
AC Mains supply fuse	1A(T) mains 20mm	
AC supply connector	Standard IEC 3 pin. Mating connector supplied	
Net weight	5.0kg	6.0kg
Dimensions (19" style)	483 x 88 x 305mm (2U fitting) excluding connectors. Allow 40mm FMS for handles	



QUALITY ASSURANCE

Guided by a policy of non-obsolescence, every part for the ZC range of amplification is carefully manufactured direct from raw materials to ensure total control of all aspects of quality and delivery. Every sub-assembly and finished unit is exhaustively and individually tested. All procedures meet our internal Quality Assurance standards, which in turn are maintained to ISO.9002.

CONTACT

We will be pleased to receive enquiries regarding application of the ZC range, either by phone, fax, or email.

In the interests of continuous development, specifications are subject to change without notice.
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Electromagnetic compatibility (EMC) directive 89/336/EEC and amendment directive 92/31/EEC

This equipment has been designed and manufactured to the highest standards. If connected and operated as set out in this manual, there should be no Electromagnetic Compatibility problems. If any aspect of operation gives rise to concern, then please contact the manufacturer for advice.