

Z+1 ACM

AC MANAGEMENT MODULE



DS-034 Issue 07

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 the Hazardous Oil, Gas and Petrochemical industries.

Consequently our products are very robust and designed to comply with international standards.

Please do not hesitate to contact us for further information on our products we look forward to working with you on a project soon...

ZITTEL Z+1 ACM MODULE

Secure PAGA system operation – *single fault tolerant*

No synchronisation required – *allows totally independent supply inputs*

Automatic supply changeover – *No break autonomy*

Multiple changeover elements – *eliminates unreliable open-frame contactors*

The Zitel ZEST Z+1 ACM Module is specified for use in mission critical PAGA applications where AC supply autonomy is essential for ‘no break’ emergency speech and alarm tone broadcast capability.

The Z+1 ACM Module is designed to allow connection of two AC mains supply inputs arranged on a secure primary/secondary N+1 ‘no break’ basis. The unit is fitted within the host PAGA central panel and comprises of a robust DIN rail mount assembly which carries AC input field cable terminals and AC feed output terminals.

The Z+1 ACM Module incorporates multiple protected outputs which are employed to feed the target rack mounted AC power consumers; dedicated supply protection for each outlet eliminates potential common mode failure risk. Each output feed is supervised by an onboard monitoring subsystem to ensure that any AC mains power supply distribution trouble is quickly brought to the attention of the maintenance engineer.

Under “system healthy” conditions, the feed outputs are routed to the primary AC supply input. In the event of primary supply failure, the feed outputs are automatically steered to the hot standby secondary mains supply input thus maintaining service. A power supply failure early warning is issued on loss of the primary supply.

To improve integrity each output feed is controlled by dedicated power preference change-over hardware rather than a single change-over element thereby obviating a major common mode failure possibility.

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The primary and secondary supply inputs are galvanically isolated by interlocked switching to prevent cross-transference of a possible fault condition between supplies and also to allow the connection of independent non-synchronized AC supply sources.



Photo above shows DIN rail mount Z+1 ACM Module, note the use of multiple switching elements which improve security. Each power circuit of the Z+1 ACM Module has dedicated multiple changeover facilities eliminating the **single point of failure** introduced when using a single change-over contactor. The switching environment is also sealed ensuring long through-life reliability in this highly critical component.

Connection is available to extend power system status to a 1 U 19 inch remote fascia display panel type Z+1 ACMD. The display panel can manage two Z+1 ACM modules and has a 'test' switch facility to allow the engineer to actively check the the ACM changeover capability by simulating failure of the primary AC mains supply input. The display panel is fitted with an RJ11 socket to the rear allowing direct connection to the host ZX100 fault report structure.

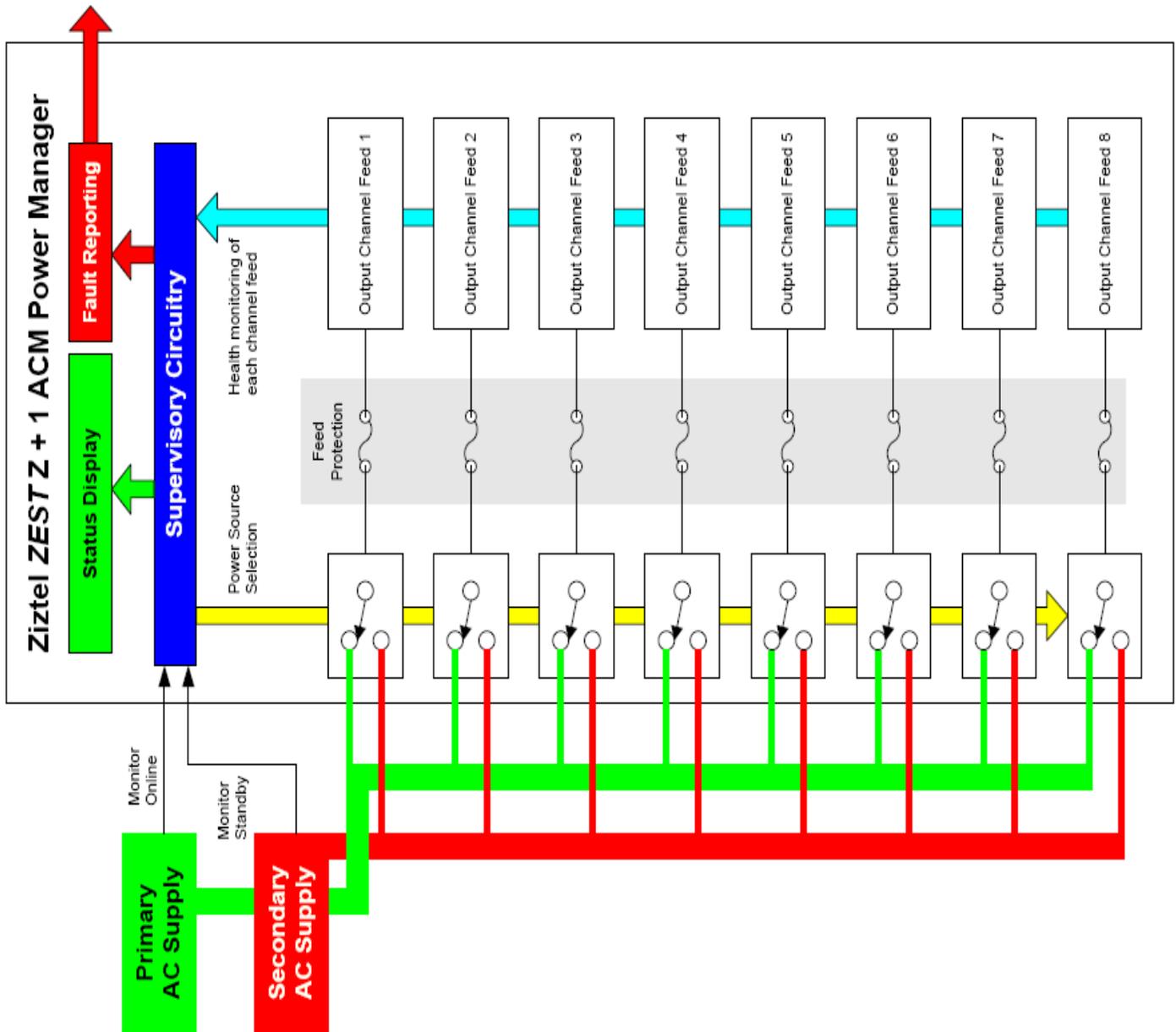


Technical Specification	
Supply input: Z+1-ACM-120	110V _{AC} - 120V _{AC} 50/60Hz
Supply input: Z+1 ACM-240	220V _{AC} - 240V _{AC} 50/60Hz
Number of output feeds	Eight
Current rating (each output)	20A
Total prospective load capacity	100A (maximum)
Maximum conductor termination input	25mm ² CSA
Maximum feed conductor termination size	6mm ² CSA
Fault report contact output	Form C dry contact rated at 0.25A at 48V _{DC}
Dimensions	450mm x 126mm x 90mm
Weight	5kg
Temperature range	-40°C to +70°C
Location	Safe area internal rack/panel

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