Zonal Sounder Board

(Bell Monitor Board)

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QUALITY ASSURED COMPANY

ISO 9001: 2008

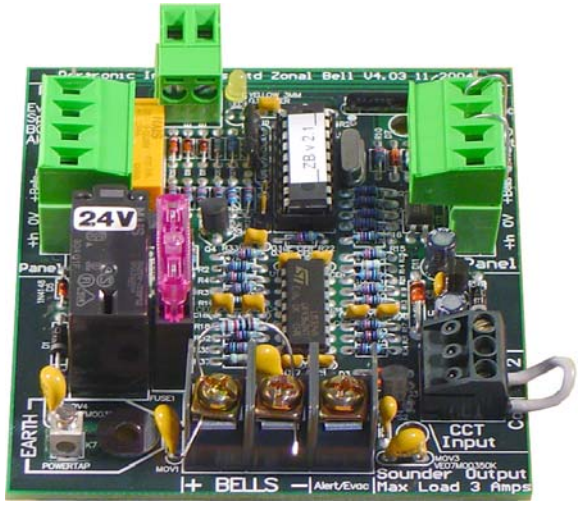
International Standards Certifications QAC/R64/0012

Product Overview:

The Pertronic **Zonal Sounder Board** (also referred to as the **Bell Monitor Board**) is used to allow one or more monitored sounder circuits to be activated independently for either Evacuation or Alert tones.

Single (1-way) and Quad (4-way) bell driver boards are available.

Other combinations may be constructed by interconnecting the externally accessible bussed control signals.



Specifications:

Electrical:	**Operating Voltage** 12 or 24Vdc	**Quiescent Current** <35mA - 1-Way board, Sounder circuit inactive <140mA - 4-Way board, Sounder circuit inactive Add up to 3A per Sounder circuit when Active
Environmental:	**Operating Temperature Range** 0ºC to 40ºC	**Humidity** 10 to 90% RH (non-condensing)
Mechanical:	**Dimensions (L x W x D mm)**	**Weight**
- 1-Way board	95 x 85 x 30	100gms
- 4-Way board	320 x 96 x 30	

Bussed Control Signals:

Panel Bells	- connected to the panel's monitored Bell output. - action depends on the state of other control signals. - active when the panel bell circuit is operated.
Evacuation	- usually connected to the panel Evacuation switch. - always activates the Sounder Circuit. - active when pulled low (0V), or taken high (≥5V).
Sprinkler	- follows the panel sprinkler input. - activates the Sounder Circuit if Panel Bells is active. - active when pulled low (0V).
Bell Silence	- disables the Sounder Circuit. - is overridden by Evacuation or Sprinkler. - active when pulled low (0V).
Alert Control	- used to generate a global alert signal - action depends on the state of other control signals. - active when pulled low (0V)

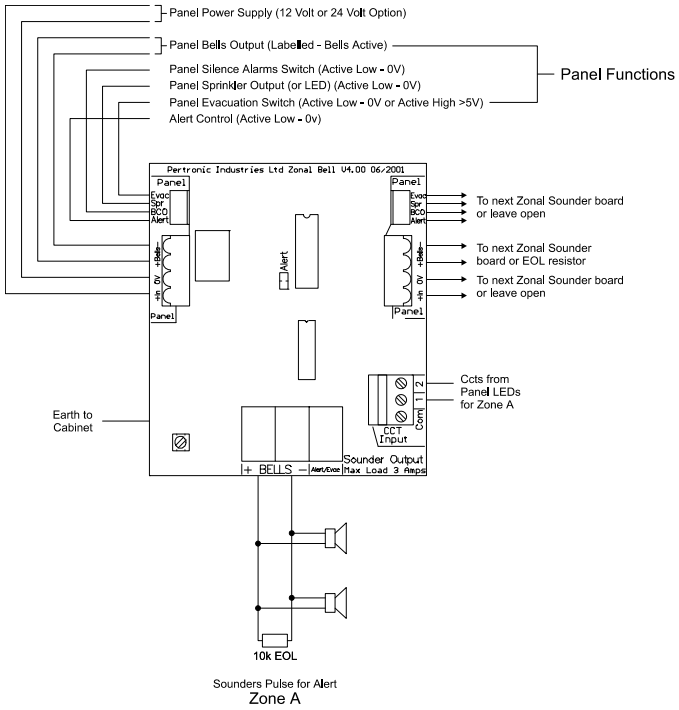
Independent Control Signals:

Circuit 1, 2	- activated by zones or one member of a group of detectors or Call-Points being in alarm. - action depends on the state of other control signals. - active when pulled low (0V).
Alert Link	- when inserted, disables the Alert Control signal - the global Alert state is disabled

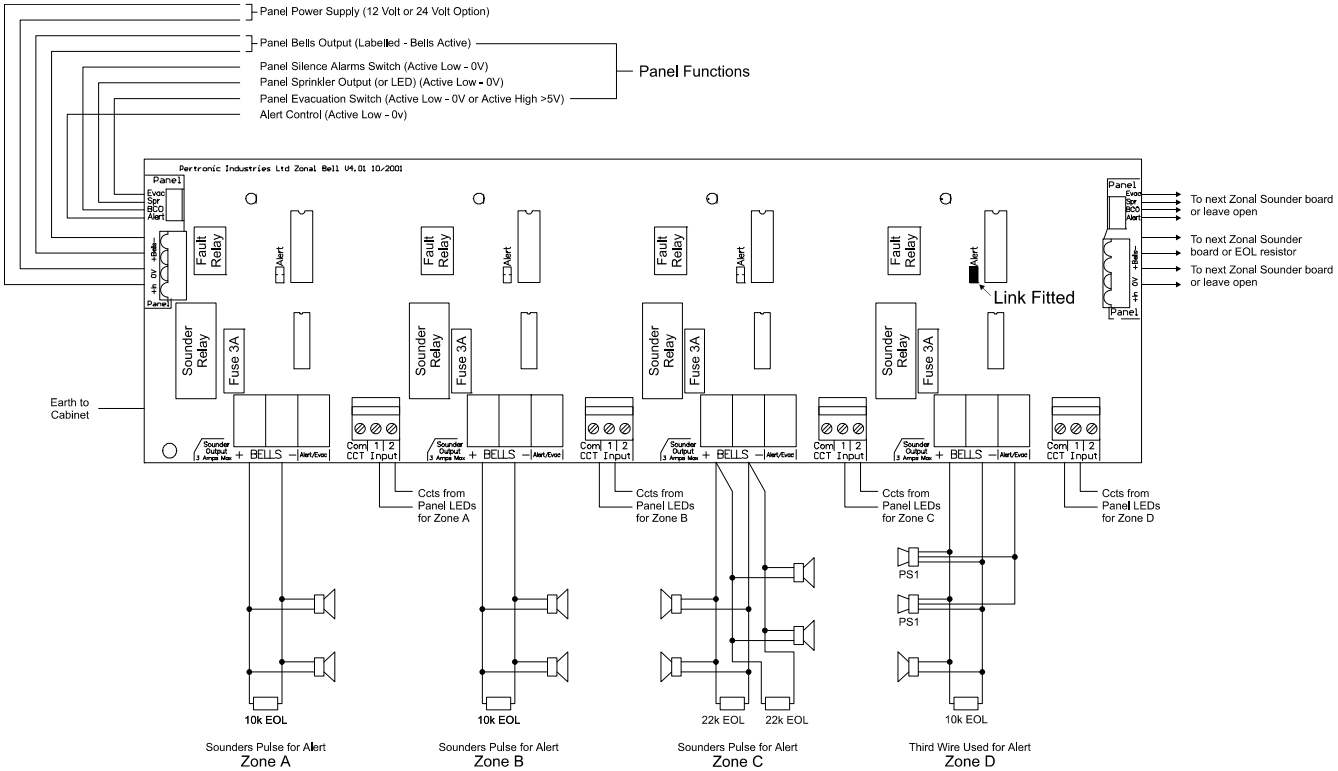
Output Functions:

Sounder Circuit	3A (fused) drive capability, 12Vdc or 24Vdc. - monitored with 10kΩ, 0,5W, 5% EOL Resistor (single spur)	
	Evacuation:	Continual activation.
	Alert:	4 seconds ON, 12 seconds OFF
Evac/Alert Control	'Third wire' for sounder Evacuation or Alert control. - pulled low (0V) for Alert.	
Bells Defect	- the Sounder Circuit is monitored for a 10kΩ EOL resistor by applying reverse supply voltage to the circuit. - Defects in the Sounder circuit are sent to the panel by unbalancing the Panel Bells circuit.	
LED Indication	ON steady	Sounder Circuit relay ON.
	Flashing	Latched fault ON: Sounder Circuit, Low battery or Bell circuit fault

Connection Diagram : Single Unit



Connection Diagram : Quad Unit



Product Codes:

NZS Code	Description	NZFPA Listing No
F16ZBB	Zonal Bell Monitor Board : 1-Way : 12Vdc	
ZMB24V	Zonal Bell Monitor Board : 1-Way : 24Vdc	
F16ZBB4WAY	Zonal Bell Monitor Board: 4-Way : 12Vdc	
ZMB24V4WAY	Zonal Bell Monitor Board: 4-Way : 24Vdc	

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