

PERTRONIC INDUSTRIES LTD

DATASHEET

Pertronic Sounder Base (PSBAS2220)



Overview

The Pertronic Sounder Base (PSBAS2220) is an analogue addressable plug-in detector base with built-in sounder. The PSBAS2220 generates a tone when the detector is in alarm, or when directly activated by a bell circuit.

The PSBAS2220 communicates with any Pertronic analogue addressable fire alarm control panel via the AA loop. The base connections connect the sounder base to the analogue addressable loop, and internally to the LED drive output of the analogue addressable detector.

When the detector is in the alarm state, the sounder base generates NZS 4512:2010 Appendix F evacuation or alert signals, depending on the position of switch S1. (Switch S1 is accessible only when the unit is removed from its mounting base.)

The unit may also be powered from a supervised bell or sounder circuit via the SNDR IN terminals. If the bell circuit is activated, the evacuation signal will be generated, irrespective of the detector status.

Features

- » Configurable NZS 4512:2010 Appendix F sound patterns when detector active:
 - » Switch S1 DOWN: Evacuation signal
 - » Switch S1 UP: Alert signal
- » Sounds evacuation signal when SNDR IN activated
- » Configurable to generate an alert signal acceptable to NZS4512:1997 by giving an evacuation tone sweep every 15.5 seconds
- » 95 dBA maximum sound pressure level



Pertronic Analogue Addressable Sounder Base (PSBAS2220)

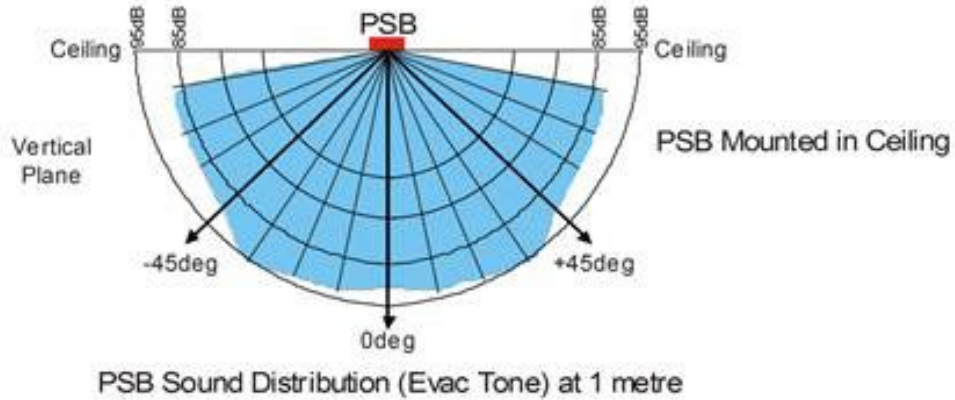
The PSBAS2220 is normally mounted by recessing it into the ceiling. A mounting ring is available for surface mounted applications.

Specification

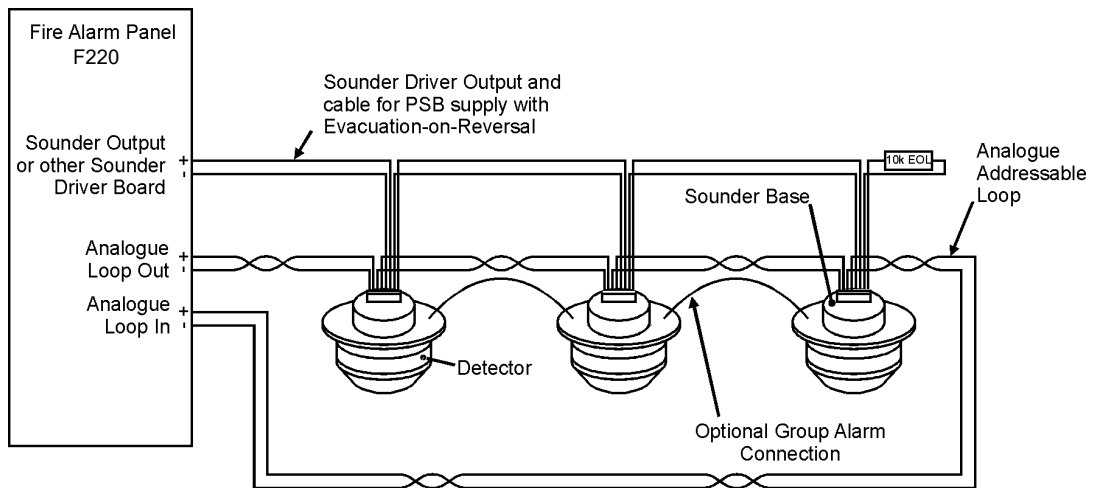
Sound Pressure Level at 1 m (± 3 dB)	Alert	87 dBA
	Evacuation	95 dBA
Analogue Addressable Loop connection only	Operating Voltage	15 to 30 V dc
	Quiescent Current (non-alarm)	0.4 mA (24 V)
	Operating Current (alarm state) (see note)	8 mA average, 12 mA peak, 15 V 14 mA average, 22 mA peak, 24 V
Bell Driver connected with Analogue Addressable Loop	Quiescent Current (non-alarm)	0.2 mA @ 24 V (Analogue addressable loop) 0.2 μ A @ 24 V (Bell driver)
	Operating Current (alarm state)	8 mA average, 12 mA peak, 15 V 14 mA average, 22 mA peak, 24 V
Height	Below Ceiling (when recessed)	31 mm (including B501 base)
	Above Ceiling (when recessed)	35 mm
	With Surface Mounted Extension Cover	66 mm
	Surface Mounted Extension Cover	35 mm
Mounting Flange Diameter		122 mm
Colour		Ivory

Note: Operating current sourced from the power supply with the greater voltage (usually bell driver).

Sound Pressure Distribution



General Connection Diagram



Ordering Information & Notes

Product Code	Description
PSBAS2220	Sounder Base (B501) with evacuation tone. Configurable to AS2220-AT with alert tone

Notes

- When switch S1 is UP, this product is designated PSBAS2220-AT. The PSBAS2220-AT generates the NZS 4512:2010 alert signal when the detector is in alarm. (PSB units manufactured before mid-2020 were configured with a link, MJ1. To configure the product to generate the alert signal when the detector is in alarm, link MJ1 should be fitted.)

- The NZS 4512:2010 Appendix F evacuation signal is the same as the evacuation signal specified in Australian Standard AS 2220.

The information in this document must not be treated as partial or complete instructions for the design, construction, installation, commissioning, or maintenance of fire detection, fire alarm, or building evacuation systems. Fire and evacuation systems must be designed and installed by properly qualified persons, in accordance with all regulatory requirements.

Unless explicitly stated otherwise, this document provides typical specifications and nominal dimensions. Actual product performance and dimensions may vary.

All information in this document is subject to change. Please consult Pertronic Industries or visit our web site for up to date information.

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