



1 Watt, 100Vrms Speaker PSS1

Head Office

Wellington

PO Box 35-063
Naenae
17 Eastern Hutt Rd
Wingate
Lower Hutt
Tel (04) 567-3229
Fax (04) 567-3644

www.pertronic.co.nz

sales@pertronic.co.nz
tech@pertronic.co.nz

Auckland Office

PO Box 15-867
New Lynn 0640
359 Onehunga Mall
Onehunga
Auckland
Tel (09) 633-0226
Fax (09) 633-0228

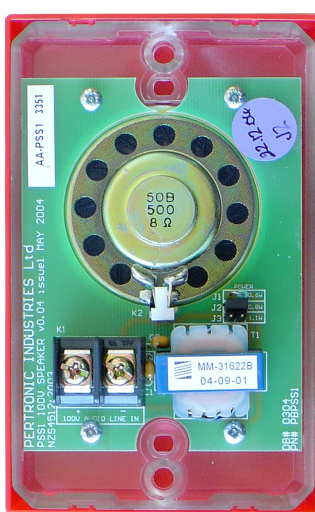
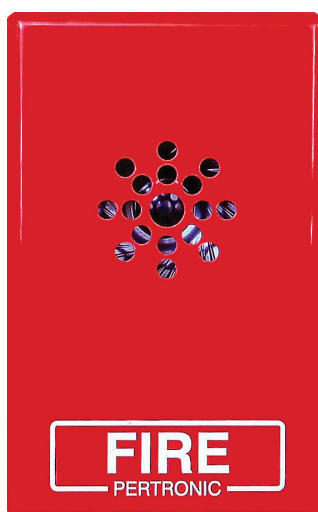


ISO 9001: 2000

International Standards
Certifications
QAC/R61/0051

Product Overview:

- The **PSS1** Speaker is one of a range of 100V-Line speakers (1.1W max) manufactured by Pertronic Industries Ltd.
- Used in conjunction with Pertronic 20W and 50W, 100V Line Amplifiers, the **PSS1** provides a cost effective solution for speaker-based building evacuation systems that must comply with the NZS4512:2003 and AS2220 Standards.
- Integrates a 1W speaker; tapped line transformer and DC blocking capacitor within a PDL style flush plate.
- May be mounted in a standard single gang electrical flush-box fitting, and is supplied with a protective plastic cover for installation and building construction use.
- Defaults to 0.2W with a choice of mini-jumpers to select 0.7W or 1.1W power outputs.
- At 1.1W the **PSS1** can reproduce the 'Evacuation' tone at a sound pressure level of 97dBA at 1metre, when used with Pertronic 100V amplifiers.



Operation:

- The Amplifier Line output is connected to the **PSS1** Speaker, as shown in Figure 2.
- The Amplifier Line terminals '+' and '-' are connected to the corresponding **PSS1** '+' and '-' terminals.
- While the Amplifier is not active, the line is monitored by the application of an inverted DC voltage to the **PSS1** '+' terminal.
- The **PSS1** consumes no power in monitor mode.
- A 10kΩ, 1W EOL monitor resistor is placed at the last **PSS1**.
- When the Amplifier is active, the monitoring DC voltage is removed from the line output and the 100Vrms signal is applied, causing the **PSS1** to operate.

Specification:

Dimensions:	17 x 74 x 12mm (H x W x D)	- above flush-box
		- designed to fit into a single-gang electrical flush-box or surface-mount fitting.
Colour Options:	Red or White.	
Sound Level Output:	Sound pressure level at 1.1W, 1m (peak ± 3dB)	
	Power Tap selected:	0.2W 0.7W 1.1W
	Evacuation:	73dBA 94dBA 97dBA
	Alert:	63dBA 82dBA 86dBA
Frequency Response:	400Hz – 10kHz	
Input Capacitor:	2µ2F, 100V Bipolar Electrolytic ELCO	
Maximum Line Voltage:	100Vrms	

Sound Distribution Diagram:

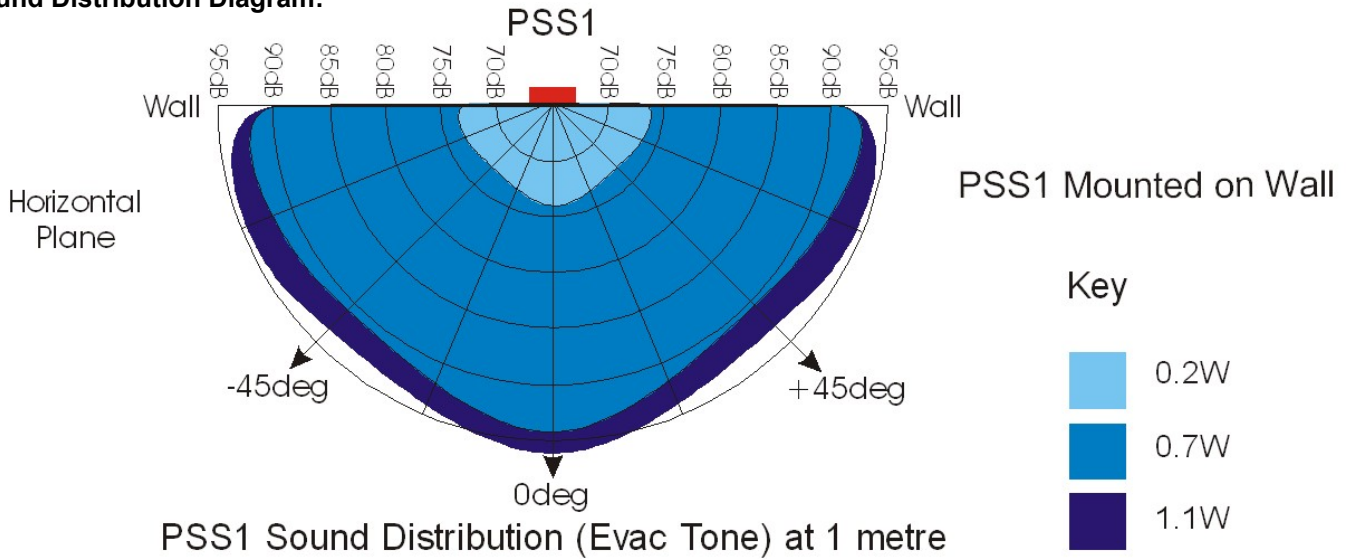


Figure 1

Connection Diagram:

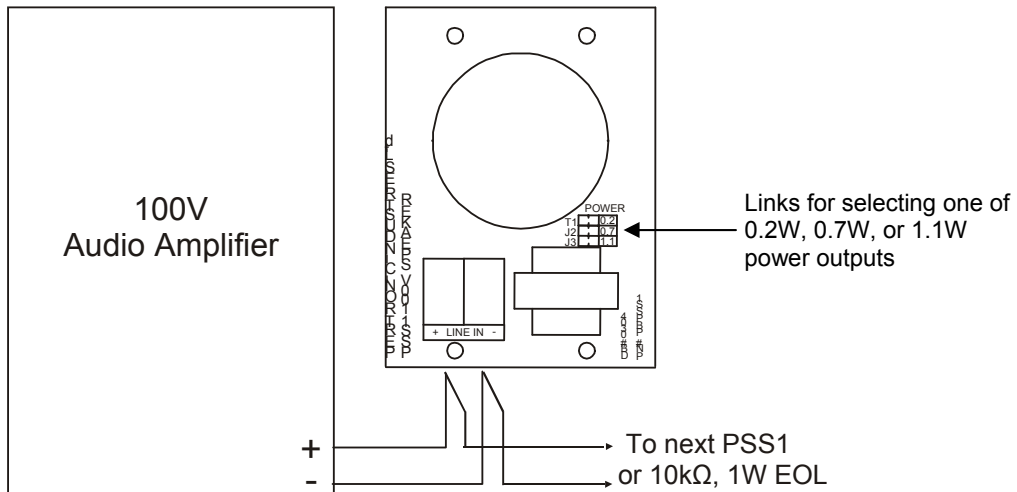


Figure 2

Product Codes:

Description	Code
Pertronic Sounder Speaker: 1W Flush - Red	PSS1-R
Pertronic Sounder Speaker: 1W Flush - White	PSS1-W
Pertronic Speaker with B401 Conventional Base	PSSB401
Pertronic Speaker with B501 Analogue Base	PSSB501
Pertronic Speaker with B524IEFT Isolator Base	PSSB524IEFT
Evacuation Amplifier 20W, 12V; 4512:2003	EVAC20W12V
Evacuation Amplifier 20W, 24V; 4512:2003	EVAC20W24V
Evacuation Amplifier 50W, 24V; 4521:2003	EVAC50W24V
Pre-Amp (Mic I/P) for EVAC50W24V Amplifier	EVAC50PREA
100V Line Strobe Interface	PSTIF

PERTRONIC INDUSTRIES LTD

Head Office:

17 Eastern Hutt Rd, Wingate, Lower Hutt
Tel (04) 567-3229 Fax (04) 567-3644

www.pertronic.co.nz
sales@pertronic.co.nz
tech@pertronic.co.nz

Auckland Office:

359 Onehunga Mall, Onehunga, Auckland
Tel (09) 633-0226 Fax (09) 633-0228

'Pertronic' and 'Firetronix' are registered trademarks of Pertronic Industries Ltd