



Building Occupant Warning System

- Self-contained, stand-alone operation
- Selectable AS 2220 or ISO 8201 alert and evacuate tones
- Digitised speech messages
- Integral PA microphone for emergency warning and non-emergency PA
- Available in 50W and 100W 100V line output versions
- 50W version is field expandable to 2 x 50W outputs
- Key switch selectable Evacuate/Isolate positions
- Indication for faults and alarm status
- Alarm input and common fault output for connection to a fire alarm panel
- Zone-selective paging options
- Compatible with remote audio streamed over IP network
- 5A power supply with space for 2 x 17Ah batteries

The VIGILANT Building Occupant Warning System (BOWS) is a self-contained AS 2220 or ISO 8201 Alert and Evacuate tone generator, with integral power supply, digitised speech messages, and PA microphone. It has been designed to connect directly to a fire alarm panel, but can also be used as a stand-alone unit.

Zone-based non-emergency paging options, IP remote audio connectivity and multiple audio connectivity make the VIGILANT BOWS a versatile unit ideally suited to a variety of building occupant warning applications.

The occupants of your building rely on adequate warning of any emergency situation requiring evacuation.

The VIGILANT BOWS provides a fully featured, yet cost-effective solution for small to medium sized buildings. It is available in two standard configurations; one with 50W audio output for smaller buildings (expandable to 2 x 50W outputs), and one with a 100W audio output for larger buildings.

For emergency situations it supports stand-alone operation with automatic change-over from the alert tone and spoken message, to the evacuate tone and a different message; plus operator controlled evacuation key switch and in-built microphone for making emergency public address announcements.

For everyday use it provides a background music input; zone-selectable paging options using the in-built microphone and a front panel zone selection switch, or a remote 4-zone paging console with integrated microphone; and a remote audio input with a control input for external sources such as external paging, LAN connected audio-over-IP announcement, etc.

When coupled with a modern fire detection and alarm system, such as the VIGILANT MX 7, the VIGILANT BOWS becomes an integral part of your building's fire detection and life safety infrastructure.

VIGILANT BOWS

Building Occupant Warning System

Specifications

Electrical Characteristics

	FP1021 (50W)	FP1022 (100W)
Supply Voltage	230/240VAC	
Battery Voltage	24Vdc	
PSU Capacity	5A continuous, 6A short-term	
Quiescent Current		
Base Unit	95mA	140mA
with FP1023	155mA	200mA
with FP1024	115mA	160mA
Active Current	2.3A	4.5A
100V Line Output		
Line Power Tones	50W rms	100W rms
Line Power Audio	25W rms	50W rms
AC (Tones)	100V rms	
Supervision EOLR		
1 Branch	56k Ohm 0.4W	
2 Branches	100k Ohm 0.4W	

Optional Zone Paging Outputs

Line Outputs	4
Max. Speaker Load	40W per line output, up to unit load
Supervision EOLR	47k Ohm 0.4W

Alarm Input

Levels	O/C = Fault 3V to 5V (if supervision enabled) 3k3 Ohm to 10k Ohm = Normal 1V to 3V S/C = Alarm 0V to 1V
Input Current	0.7mA at 0V

Fault Output

FLT—	Open Collector 30V max.
COM, NO, NC	Normally energised change-over relay Voltage free contacts, ELV only 30V 2Adc resistive max. 30V 1Adc inductive max.

Audio Inputs

Background Music	Non-isolated. Input impedance: 10k Ohm 0.2V rms min. - 1V rms max. for full power
Remote Audio	Non-isolated. Input impedance: 10k Ohm 0.2V rms min. - 1V rms max. for full power
Remote Audio Active Input	Input impedance: 56k Ohm to 0V
Active Low or High	Link Selectable
Input Level Low	Not Active: 1V to 30V Active: <1V
Input Level High	Active: 2V to 30V Not Active: <2V
Paging	Isolated. Input impedance: 600 Ohm 0.2V rms min. to 1V rms max. for full power

Zone Paging Console

Supply	24Vdc
Current	
Quiescent	40mA
Audio Active	100mA

BOWS Mechanical Characteristics

Dimensions	440 (H) x 550 (W) x 210 (D) mm
Weight	20kg excluding batteries
Material	1.2mm mild steel
Finish	Powdercoat Cream Wrinkle BFF-998-CW

Environmental Characteristics

Temperature	-5°C to +45°C
Relative Humidity	0 to 95% non-condensing
Ingress Protection	IP41

Standards Compliance

CISPR 22	Class A
AS 1670.1	Designed to comply with AS 1670.1 clause 3.2.2(b)

Ordering Information

FP1021	BOWS 50W
FP1022	BOWS 100W
FP1023	BOWS Zone Paging Kit incl. Paging Console
FP1024	BOWS Emergency Mic. Zone Paging Kit
PA0766	T-GEN 50 for FP1021 or spare part
PA1090	BOWS Interface Board spare part
ME0476	5A 24Vdc PSU spare part.