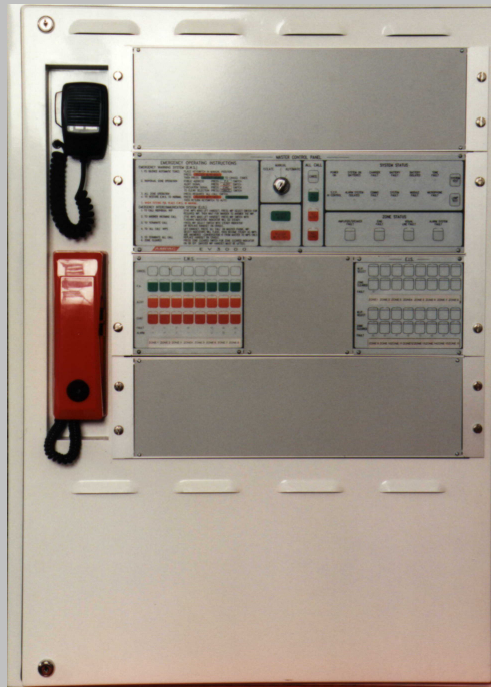


Features:

- Networked System
- Modular system design
- Discrete front panel control
- 40, 120, 240 or 480-watts amplifiers
- Common or individual fire alarm inputs
- Common or zoned background music inputs
- Monitoring of speaker circuits
- Monitoring of Visual Warning devices
- Monitoring of WIP's including EAID Automatic volume control incorporating the ambient noise sensing microphone
- Fail safe volume override output
- Stand-by signal generator
- Stand-by microphone amplifier
- Automatic changeover to stand-by amplifiers
- Digital paging console

Front View of a 12U version EV3000



Description

The Ampac EV3000 is an Occupant Warning & Intercommunication System (OWIS) that complies with AS2220.1 and produces Alert and Evacuation signals compliant with AS1670.4.

The two main components of the EV3000 control panel are:

1. Occupant Warning System (OWS); and
2. Occupant Intercommunication System (OIS)

The OWS provides

- ✓ the Alert / Evacuation signals
- ✓ public address, background music, and
- ✓ turns visual warning devices under given circumstances.

The OIS provides

Communication between the control panel and remote Warden Intercom Phones (WIP).

Up to five WIP's can be put in conference mode with full duplex communication capabilities. The Chief Warden can also initiate an "All Call" simplex broadcast to all WIP's.

Technical

Occupant Warning System

An installation is broken down into a number of OWS zones with each zone having one or more amplifiers with associated speakers and visual warning devices.

In the event of an amplifier failure the EV3000 can be configured to automatically to a designated standby amplifier.

Standard amplifier features include:

- ✓ 100 volt line output
- ✓ Modular construction
- ✓ Eight (8) 40-watt amplifiers fit in an amplifier frame, four (4) for 120-watt, two (2) for 240-watt and one (1) for 480-watt.
- ✓ Monitoring for short and open speaker circuit
- ✓ Amplifier fault monitoring
- ✓ Overload protection with automatic reset
- ✓ Factory set output level control
- ✓ Volume control override

EV3000 OCCUPANT WARNING & INTERCOMMUNICATION SYSTEM (OWIS)

Alert and Evacuation signals can be directed to individual zones by selecting the associated function against each zone or an 'All Call' single press button function will broadcast to all zones.

OWS Paging Zones

OWS Zones may be subdivided into a maximum of three paging zones. This configuration saves on increasing the required number of zone amplifiers whilst the numbers of paging zones are increased.

There can be up to eight paging consoles in a system. The paging console may be programmed to have a group of paging zones selected with a single button. A serial RS485 communications bus is required to connect the paging console to the EV3000 Control Panel.

Occupant Intercommunication System

The function of the OIS is to allow the Chief Warden to communicate with wardens stationed at each WIP.

The OIS requires two wires when only a WIP is use and three wires when a WIP and an Emergency Alarm Initiating Device (EAID) is used.

Calls can be originated from either end. The called party will be alerted to the call by the activation of an audible and visual indicator. The operator may also select up to five wardens for a conference call or activate the "All Call" function.

Networked Systems

Multiple EV3000 control panels can be connected via a communications bus to network a system. There may be a number of Secondary ECP's (SECP) in a networked system but only one Main ECP (MECP).

All SECP's have equal priority – the first operator at an SECP to change mode of operation from 'Auto' to 'Manual' will have total control of the system thereby disabling all other SECP's. In other words it is on a 'first come first served' basis. A user at the MECP can take overall control irrespective of the operational status of the SECP's on site.

The EV3000 allows a mix of OWS and OIS hardware located at each ECP. This allows field equipment like speakers, visual warning devices and WIP's to be terminated to the local ECP. An operator at an ECP can have control of the entire site.

Controls/ Indicators/ Special text

Control of both systems is via a discrete front panel. There is audible feedback and status indication when a zone function on the front panel is selected.

A keyswitch allows the selection of one of three operating modes.

The modes are:

1. *Isolate* – or "training mode" while still monitoring incoming alarms from the FACP.

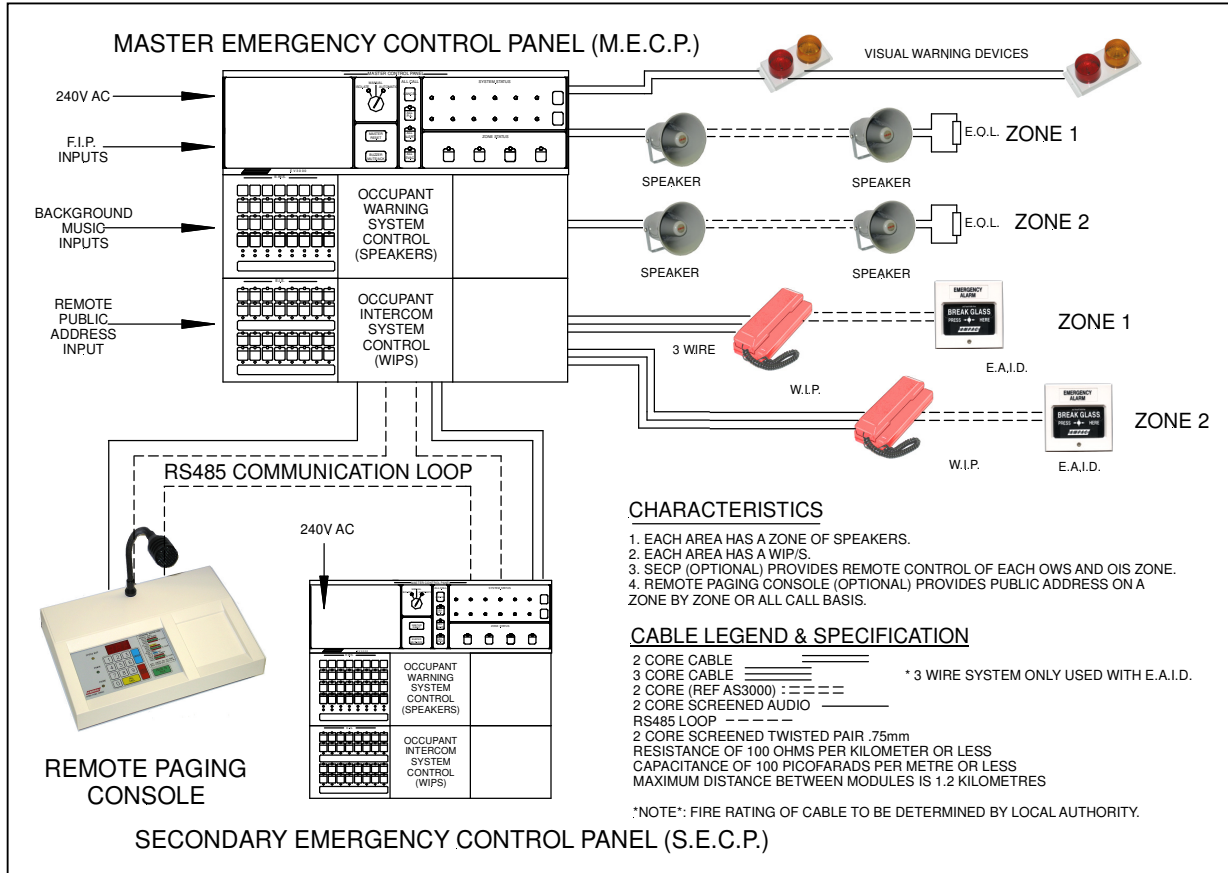
The key is trapped.

2. *Manual* –the operator has conditional control of the system while still monitoring incoming alarms from the FACP.

The key is trapped.

3. *Automatic* – In this mode an incoming fire alarm will illuminate the associated fire zone LED and initiate a programmed "Evacuation" sequence.

The key is removable.



Function Indicators

Indicators	Description	Colour
	Isolate (Keyswitch)	Amber
	Automatic (Keyswitch)	Green
	All Call PA	Green
	All Call Alert	Amber
	All Call Evacuation	Red
	Power On	Green
	System On Batteries	Red
	Charger Fault	Amber
	Battery Fault	Amber
	Battery Isolated	Amber
	Signal Fault	Amber
	ECP in Control	Red
	Alarm System Isolate	Amber
	Communications Fault	Amber
	System Fault	Amber
	Module Fault	Amber
	Microphone Fault	Amber
	Amplifier/Speaker Fault	Amber
	EAD Fault	Amber
	Visual Line Fault	Amber
	Alarm System Fault	Amber
OWS Zone	P.A.	Green
	Alert	Amber
	Evacuation	Red
	Fault	Amber
	Alarm	Red
OIS Zone	WIP Select	Red
	Zone Cleared	Green
	Fault	Amber

Order Code	Panel	Dimensions (mm)
SECP only	10 U	700H x 625W x 240D
105-0001	12 U	900H x 650W x 290D
105-0002	16 U	1200H x 700W x 375D
105-0003	29 U	1800H x 700W x 375D

Approvals	SSL – AS2220.1
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Specifications

Power Supply	7, 14, 21, or 28 Amps @ 24V
Communication	RS485 @ 9600 BPS
OWS Zones	144 max
OIS Zones	288 max
Paging Console	8 max (recommended)
ECP's	12 max (recommended)
Visual Warning	8 max per circuit
Current Draw	(Quiescent / Alarm)
Basic System	800mA
Remote Paging	270mA
Amplifiers 40/120W	58 - 3200mA / 170 - 8000mA
WIP Modules	70mA
WIP's	2 – 60mA
Visuals - zones	2 – 10mA
Visuals 1 / 3 / 5W	50 / 150 / 250mA (Alarm)
EWS	35mA
IP Rating	51
Finish	Powder Coated Arch White
Material	1.6mm Mild Steel