

EV3000 Emergency Warning & Intercommunication System (EWIS)

Features

- Network System
- Modular System Design
- Discrete Front Panel Controls
- 40, 120, 240 or 480-Watt Amplifiers
- Common or Individual Fire Alarm Inputs
- Common or Zoned Background Music Inputs
- Monitoring of Speaker Circuits
- Monitoring Visual Warning Device Circuits
- Monitoring of WIP's including EAID
- Automatic Volume Control incorporating an Ambient Noise Sensing Microphone
- Fail Safe Volume Override Output
- Stand-by Signal Generator
- Stand-by Microphone Amplifier
- Stand-by Amplifiers with Automatic Changeover in the event of a fault
- Digital Paging Console

Description

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

The two main components of the EV3000 System:

- Emergency Warning System (EWS)
- Emergency Intercommunication System (EIS)

The EWS provides

- The Alert /Evacuation signals
- Public Address (P.A.), Background music
- Visual Warning Devices configured to turn on under given circumstances

The EIS provides

- Communication between the control panel and remote Warden Intercom Phones (WIP's)
- Up to five WIP's can be put in conference mode with full duplex communication capabilities. The Chief Warden can be also initiate an "ALL CALL" simplex broadcast to all WIP's

Emergency Warning System

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



Figure 1: 12U EV3000

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.

EWS Paging Zones

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

Emergency Intercommunication System

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

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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).

The EV3000 allows a mix of EWS and EIS 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.

Item Numbers

105-0001	12U MECP
105-0002	16U MECP
105-0003	29U MECP
105-0007	29U MECP Double Cabinet
105-0004	10U SECP
105-0005	12U SECP
105-0006	16U SECP
105-0009	29U SECP

Specifications

Power Supply	6.5, 13, 19.5 or 26Amps @ 24V
Communication	RS485 @ 9600 BPS
EWS Zones	144 max (192 for V20)
EIS Zones	288 max (384 for V20)
Paging Consoles	8 max (recommended)
ECP's	12 max (recommended)
Visual Warning	2 Amp max per circuit
Current Draw	Quiescent / Alarm
Basic System	800mA
Remote Paging	270mA

Specifications Continued

Current Draw	Quiescent / Alarm
Amplifiers	
40W	58mA / 3200mA
120W	170mA / 8000mA
WIP modules	70mA (per 16 WIP's)
WIP's	15mA (in use) 20mA (ringing)
Visuals - Zones	10mA + Strobe load
Visuals (XENON)	16 max per circuit
1W	50mA (Alarm)
3W	150mA (Alarm)
5W	250mA (Alarm)
Visuals (LED)	40 max per circuit 5mA
EWS	35mA
Temperature	-20°C to +70°C
Humidity	0 – 95% non-condensing
Approvals	System – AS2220.1 Signals – AS1670.1

Mechanicals

Material	1.6mm Mild Steel
Finish	Powder Coat Arch White
IP Rating	51
10U Cabinet	700(H) x 625(W) x 240(D) mm
12U Cabinet	900(H) x 700(W) x 375(D) mm
16U Cabinet	1200(H) x 700(W) x 375(D) mm
29U Cabinet	1800(H) x 700(W) x 375(D) mm



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