



MATRIX & CONVENTIONAL

Precision ROUTING Absolute CONTROL

- ▶ VOICE ALARM CONTROLLER
- ▶ MATRIX SYSTEM
- ▶ PAGING MICS
- ▶ BGM & EVAC PLAYERS
- ▶ EVAC / FIRE ALARM INTERFACE
- ▶ PRE-AMP MIXER & AMPLIFIERS
- ▶ AMP CHANGEOVER & LINE MONITORING
- ▶ ZONE SELECTORS & DECODERS
- ▶ POWER SUPPLIES & CHARGER



① INTRODUCTION

Amperes offers in-market systems to suit every installation, whether for budget-friendly or more advanced requirements. From simple PA setups to complex systems that comply with authority standards, we provide reliable solutions for clear and quality audio delivery. Because safety matters to all, our EVAC announcement systems are designed to broadcast critical messages promptly and efficiently through coordinated and controlled equipment.





EVM8810

Integrated VAC (Master)
1000W 100V Line

EVS8820

Integrated VAC Extension (Slave)
1000W 100V Line

Introducing the all new Amperes Integrated Voice Alarm Controller, a compact all-in-one solution for EVAC, Paging and BGM systems.

Powered by the **EVM8810**, it features a built-in 1000W 100V amplifier with 8 zones (expandable to 24 with **EVS8820** extensions), along with essential EVAC components such as an emergency microphone, siren generator, and pre-recorded messages that can be triggered manually or via the FI6000 MK II interface.

It also includes a built-in mixer with tone controls and an integrated media player (USB, SD, FM, Bluetooth), and AFS with standby amplifier changeover for uninterrupted system continuity whenever the amplifier module fails. Now enhanced with a redundant 24V DC backup power input.

EVM8810 & EVS8820 are ideal for installation that requires simplicity with limited space area for equipment but able to comply to all requirements by fire authority.

Key Features

- All-in-one integrated **Voice Alarm Controller** for EVAC, Paging & BGM
- Built-in **1000W 100V Class D** amplifier with **8 speaker zones**
- **EVAC features** with emergency microphone, siren tone generator, and voice message (4 message memory bank)
- **Highest priority override** with fire-compliant paging sequence (EN54 / BS)
- **Auto Amplifier Fault Sensor (AFS)** with standby amplifier changeover
- **8 audio inputs** (6 Mic/Line + 2 RCA) with **tone control** (Bass & Treble)
- Auto muting with **adjustable ducking for paging over BGM**
- **Built-in media player** (USB, SD/MP3, FM tuner, Bluetooth)
- **All Call relay trigger** (front or remote activation)
- **Relay contacts** for external volume override during emergency paging
- **Visual FIRE indicator** and built-in monitoring speaker
- Redundant **24V DC backup power input**
- **Fault dry contact output** for system monitoring
- Supports Amperes PD Series paging microphones, PT1801 MK II, EP1200, FI6000 MK II
- Cascadable to 24 zones for larger setup (via EVS8820 or TD6400)

Technical Specifications

	EVM8810 (Master)	EVS8820 (Slave)
Power supply	220 - 240V AC, 50 / 60 Hz or 24 - 30V DC backup supply	
Power rating	1000W at 100V line output	
Power consumption (240V AC)	Full load: 1500VA (6.1A) Standby: 0.5A	Full load: 1500VA (6.1A) Standby: 0.4A
Current consumption (24V DC)	Full load: 50A Standby: 1.2A	Full load: 50A Standby: 1A
Input channels	Ch 1 to 6 mic/line (balanced), RCA x2, Handheld PTT mic, Message bank x4, Siren, PD paging mic port x2, USB/MP3/FM/BT, Ext. EP mic	Back up amplifier input port (100V line in - balanced)
Input sensitivity / impedance	Mic: 40mV / 10k Ohm Line: 1.2V / 10k Ohm	Line: 1.2V / 10k Ohm
Input signal at standby	Switchable auto detect / always ON	
Frequency response	20 - 18 kHz (± 3 dB @ 1 kHz)	50 - 15 kHz (± 3 dB @ 1 kHz)
THD + Noise	<1%	
Standby amp changeover	Built-in changeover relay	
Zone output	8 zones (front switch and remote paging with All Call)	
Audio output	Master line output, balanced 0 dBu	
Audio link to slave unit	Line balanced 0 dBu	
Emergency dry contact	3A, NO relay	
Tone controls	Bass (100 Hz), Treble (10 kHz), 15 dB slope	
Output audio monitoring	Front speaker with volume control	
Controls	Individual channels, message, siren, emergency mic, bass & treble, master volume	Input gain controls
Data communications	RS485, 19.2 kbps	
Cascade / link	RJ45 port (line audio and RS485 data)	
Cascade quantity	N/A	3 units (total of 24 zones)
Indicators	Signal, temperature, fault, power, message, handheld PTT mic fault, zone selection	Signal, temperature, fault, power and zone selection
Priority sequence (low to high)	BGM, paging mic, siren, message, external EP mic, handheld PTT mic	N/A
Protections	Thermal, short circuit, overload, and AC fuses	
Cooling system	Temperature-controlled dual ventilation fan	
Cut off temperature	75°C	
Dimensions (W x H x D)	482 x 132 x 420 mm	482 x 88 x 420 mm
Net weight	10.7 kg	9.10 kg



EVM8810 EVS8820

Integrated Voice Alarm Controller (Master & Slave)

VOICE ALARM SYSTEM |

Rear Outlook

EVM8810



EVS8820



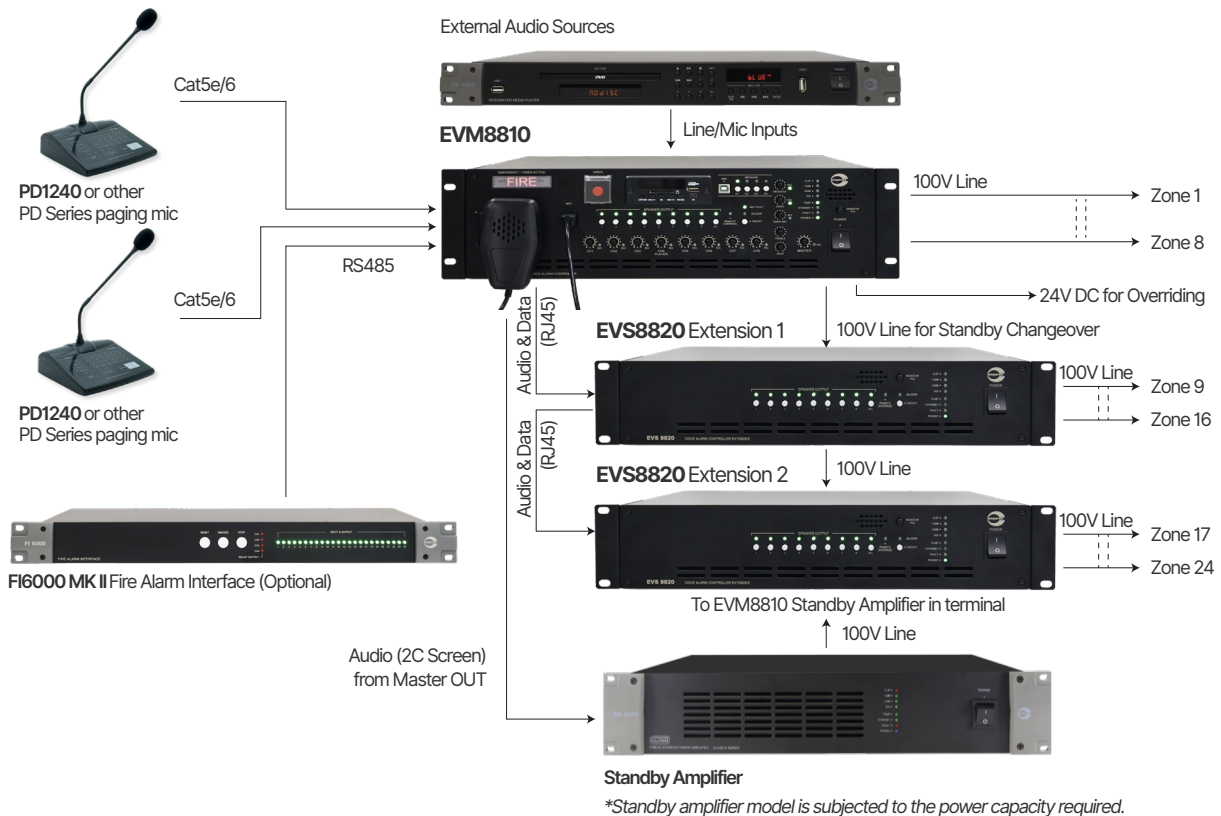
Handheld Microphone



CB338

Dynamic handheld condenser microphone with RJ45 port

Application Schematics for EVM8810 & EVS8820



Packing Information

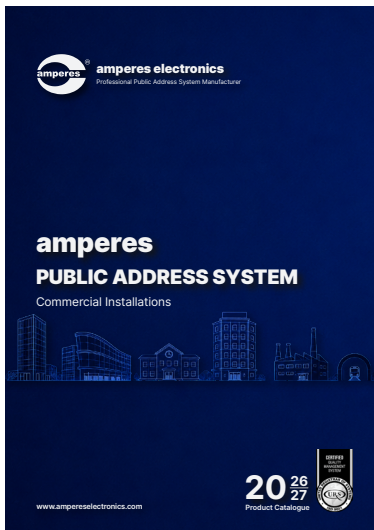
EVM8810

Carton size 555 (L) x 555 (W) x 230 (H) mm
Gross weight 13.0 kg
Qty/carton 1 unit per carton

EVS8820

555 (L) x 555 (W) x 195 (H) mm
11.05 kg
1 unit per carton





2026/2027 Product Catalogue Public Address System

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