

# AUDIBLE-VISUAL ADDRESSABLE EUROPEAN MULTI-ALERT SOUNDERS

## FEATURES:

- *Individual Control of sounders from addressable communication loop*
- *Loop powered version and externally powered version available*
- *Three volume settings selectable by means of DIP switch*
- *Externally powered version 103dBA, 93dBA and 87dBA settings*
- *Loop powered version 100dBA, 93dBA and 87dBA settings*
- *5 tones available*
- *First stage and second stage tone selectable from panel*
- *Sounds meet the requirements of BS5839*
- *Designed to meet the requirements of EN54 part 3*
- *Separate terminals for in-out wiring*



ADDRESSABLE EUROPEAN MULTI-ALERT SOUNDERS

## DESCRIPTION:

The EMA24AL and EMA24AE ranges of addressable sounders are designed to be connected to analogue addressable fire alarm systems. The EMA24AL loop-powered sounders receive their power from the analogue addressable communication loop, and can be controlled via the addressable communication protocol. The EMA24AE sounders are controlled by the communication loop, but receive their power from a separate 24V supply. The control panel can turn the sounders on and off via the communication protocol and select a first stage or second stage tone.

The sounders have three different volume settings, which are selected by means of a DIP switch. Five different tones are also available - 800Hz continuous, 800Hz interrupted and 800Hz / 1000Hz alternating tone. Where a slow interrupted tone or a slow alternating tone is necessary, a break-off tab can be used to select the slow switching rate.

For full compatibility information, please contact the manufacturer of the control panel to be used.

## SPECIFICATIONS:

### EMA24AER and EMA24AEW Externally-powered sounders

External supply voltage range	15 to 32VDC
Communication loop voltage	15 to 32VDC
Communication loop current:	300µA (Sounder off)
Communication loop current:	1.5mA (1 <sup>st</sup> stage tone)
Communication loop current:	2.5mA (2 <sup>nd</sup> stage tone)
External supply current	1.5mA (Sounder OFF)
External supply current	3.5mA (Low volume)
External supply current	7mA (Medium volume)
External supply current	22mA (High volume)
Output power	87dBA ± 3dB (Low volume)
Output power	93dBA ± 3dB (Medium volume)
Output power	103dBA ± 3dB (High volume)
Operating temperature range	-10°C to 60°C
Operating humidity range	10% to 93% relative humidity

Compatible bases:	ESBB (Black), ESBW (white) ESBBS (Black, IP66), ESBWS (White, IP66)
Dimensions (with base)	124mm x 92mm x 75mm
Weight	180g

EMA24ALR and EMA24ALW Loop-powered sounders	
Communication loop voltage	15 to 32VDC
Current Consumption (max):	600µA (Sounder off)
Current Consumption (max):	2.5mA (Low volume)
Current Consumption (max):	5mA (Medium volume)
Current Consumption (max):	13mA (High volume)
Output power	87dBA ± 3dB (Low volume)
Output power	93dBA ± 3dB (Medium volume)
Output power	100dBA ± 3dB (High volume)
Operating temperature range	-10°C to 60°C
Operating humidity range	10% to 93% relative humidity
Compatible bases:	ESBB (Black), ESBW (white) ESBBS (Black, IP66), ESBWS (White, IP66)
Dimensions (installed on base)	124mm x 92mm x 75mm (height)
Weight	180g

SOUNDER TONE SELECTION

SW3	SW4	TAB	Tone A	Tone B	Switching Rate
OFF	OFF	Unbroken	800Hz	Interrupted	2Hz
OFF	ON	Unbroken	800Hz	Alternating	2Hz
ON	OFF	Unbroken	Interrupted	Interrupted	2Hz
ON	ON	Unbroken	Alternating	Alternating	2Hz
OFF	OFF	Broken	800Hz	Interrupted	1Hz
OFF	ON	Broken	800Hz	Alternating	1Hz
ON	OFF	Broken	Interrupted	Interrupted	1Hz
ON	ON	Broken	Alternating	Alternating	1Hz

