

INSTALLATION INSTRUCTIONS FOR EMA24ALR AND EMA24ALW LOOP-POWERED ADDRESSABLE SOUNDERS

GENERAL DESCRIPTION

The EMA24AL range of addressable sounders are designed to be connected to analogue addressable fire alarm systems. These sounders must only be connected to control panels that use a compatible proprietary analogue addressable communication protocol. The EMA24AL loop-powered sounders receive their power from the analogue addressable communication loop, and can be controlled via the addressable communication protocol.

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

Installation with ECO2000 Systems

When installed in systems using the ECO2000 range of detectors, the address switch is used to set a "group address". The "group address" may be the same for several or all sounders on the loop. For systems in which all sounders are set to operate at the same address, the group address is set to 00. Please refer to the system manual for further information.

Installation with standard intelligent systems

In standard intelligent systems every device on the communication loop is allocated an address by means of code wheels. When used with standard intelligent systems, every addressable sounder on the system should be allocated a separate address, different to the address of any other modules on the system. Normally address 00 is not used on standard intelligent systems. Please refer to the system manual for further information.

EMA24ALR and EMA24ALW Loop-powered sounders

Communication loop voltage	15 to 32VDC
Current Consumption (max):	600µA (Sounder off)
Current Consumption (max):	2.75mA (Low volume)
Current Consumption (max):	6mA (Medium volume)
Current Consumption (max):	12mA (High volume)
Output power	85dBA ± 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 ESB base)	124mm x 92mm x 75mm
Weight	180g

WARNING

Disconnect loop power before installing sounders

Before installing the sounder, ensure that the system has been designed in accordance with the control panel manufacturer's recommendations.

1. Sounder Installation

- a. Set the sensor address by using a flat blade screwdriver to turn the two rotary switches, selecting the desired number between 01 and 99.
- b. Set the correct volume and tone settings on the 4-way DIP switch, referring to tables 1 and 2.
- c. If a slow switching rate on the dual tone / interrupted tone is required, break-off the tab as shown in Figure 1.
- d. Connect the cables to the sounder, according to the wiring diagram (Figure 2).
- e. Using the two screws supplied with the sounder, attach the sounder to its base.

Figure 1: Break-off Tab

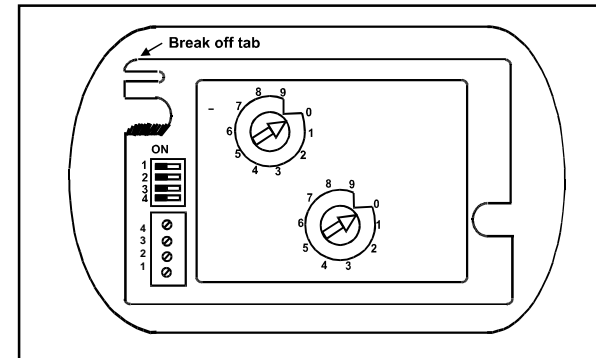


TABLE 1 - SOUNDER VOLUME SELECTION

SW1	SW2	VOLUME SETTING
OFF	OFF	HIGH
OFF	ON	MED
ON	OFF	LOW
ON	ON	LOW

TABLE 2 - 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

Panel manufacturer may select Tone A or B for 1st stage.

Figure 2: Wiring Diagram

