INSTALLATION AND MAINTENANCE INSTRUCTIONS

MAGDUOSRSQ MAGDUO Wall Sounder Red
MAGDUOSWSQ MAGDUO Wall Sounder White

https://www.espuk.com/technical_support/product_manuals/?cat=4

General Description

The MAGDUO Wall Sounder unit allows for audible indication when the system enters an alarm condition. This device is compatible with the MAGDUO 2-wire range of Fire Alarm equipment and comprises a 2-wire zone-powered sounder. This device may be installed on the same zone as the FlexiPoint detector/sounder and associated MAGDUO devices.

Before Installation

The Sounder must be installed in compliance with the control panel installation manual. The installation must also meet the requirements of any local authority. For maximum performance the sounder should be installed in compliance to BS5839 Pt1 : 2017.

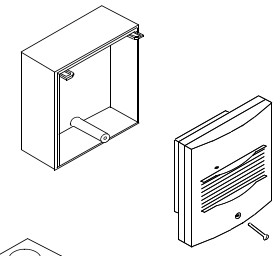
Spacing

It is recommended spacing of sounders in accordance with BS5839 Pt1. For more specific information regarding sounder spacing, placement and special applications please refer to BS5839 Pt1 : 2017.

Device Installation

Surface Mounting

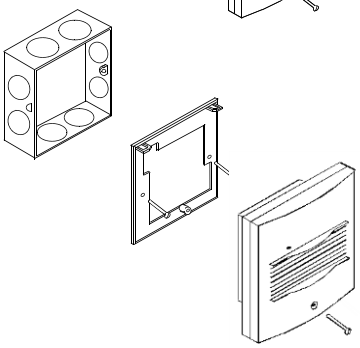
Fix the surface back box to a flat vertical surface using at least two of the four mounting holes provided. The back box may be drilled to allow cable access as required. A 20mm hole is already provided at the rear. Zone cabling may be connected to the terminals in the back box.



Flush Mounting

The MAGDUO Wall Sounder may be flush mounted utilising the optional adaptor plate, combined with any standard single gang flush mounting back box (with a minimum internal depth of 47mm).

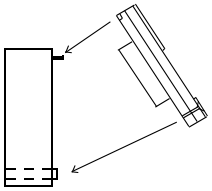
After installing the back box securely, attach the adaptor plate using the two screws provided, and terminate your cables directly into a flying terminal block.



Installation 2nd Fix

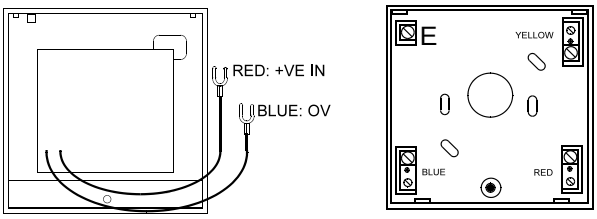
Once all testing has been carried out on the cabling and 'continuity & integrity' has been proven, the MAGDUO Wall Sounder front may be installed.

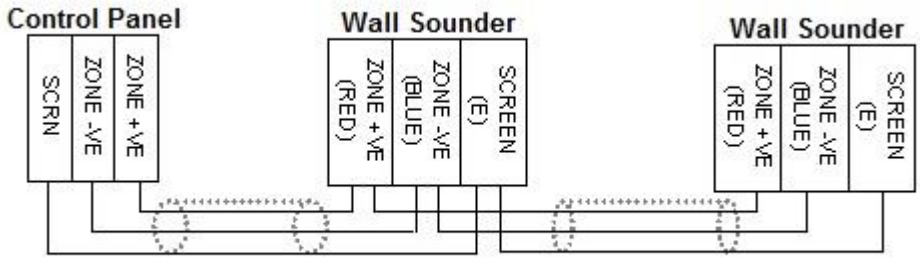
Connect the wires from the MAGDUO Wall Sounder front in to the appropriate terminals in the back box according to the wire colours. The MAGDUO Wall Sounder front may then be installed by locating the upper mounting hooks into the back box and then pushing the unit gently home. The single fixing screw may then be tightened as required.



Please remember that all high voltage testing must be carried out before the installation of the MAGDUO Wall Sounder front unit, otherwise the electronics will be damaged.

Connections





MAGDUO Wall Sounders can be mixed on the same zone as other types of MAGDUO device. The above diagram shows how to make the zone positive, zone negative and screen connections between the control panel and MAGDUO Wall Sounder. Refer to the instruction leaflets supplied with other MAGDUO devices for their equivalent wiring/terminal labelling details.

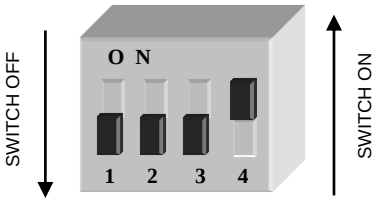
Please note that the E terminal on the MAGDUO Wall Sounder should only be connected to the zone cable screen and NOT to the building earth. The cable screen is connected to earth at the panel end only, via the zone "SCRN" terminal (or EARTH terminal on the MAGDUO panel). It is important to maintain the screen continuity in order to protect against data corruption from interference.

Remember that the device at the end of the line must have its EOL signal activated using the relevant DIL switch. Do not use a resistor or capacitor (or another manufacturer's End of Line device) as the end of line, as this may prevent correct operation of the zone.

DIL Switch Settings

The detector DIL switches may be used to program the operation of the sounder. They may be altered whilst the device is still powered or the system may be powered down completely.

The last device on the circuit must have the EOL signal enabled (switch number 1 in the 'ON' position).



		DIL SWITCH SETTINGS			
		1	2	3	4
End of line	Enabled	ON			
	Disabled	OFF			
Sound Levels	High		ON		
	Low		OFF		
Sound Patterns	Sound OFF			ON	ON
	Dual Tone UK Evacuate – 800 & 970 Hz			ON	OFF
	Slow Whoop Up - 500 to 1200 Hz sweep up			OFF	OFF
	Dual Tone French Warble – 440 & 550 HZ			OFF	ON

Technical Data

Dimensions	Width	89 mm
	Height	89 mm
	Flush Depth Protruding	34 mm
	Surface Depth	62 mm
Operating Temperature		-10°C to +50°C
Voltage Ranges	DC Output from Mains Powered Panel	25.5 to 35V DC
	DC Output from Battery Powered Panel	20 to 26V DC
Operating Current (Typical)	Quiescent	185 uA
	End of line ON if applicable *(in addition to Quiescent)*	175 uA
	Alarm Sounding – Sounder High	14.5 mA
	Alarm Sounding – Sounder Low	12.6 mA
Device Loading Units		
	Max Loading Units per zone	160 DLU
	Sounder High.	14.5 DLU
	Sounder Low	13.0 DLU
Volume Level	Sounder High	85+ dB(A)
(@ 1m anechoic, Dual Tone)	Sounder Low	65+ dB(A)
Flammability		UL94-V2
IP Rating		IP 21C

Technical Support

Due to the complexity and inherent importance of a life risk type system, training on this equipment is essential, and commissioning should only be carried out by competent persons.

ESP's policy is one of continual improvement and the right to change a specification at any time without notice is reserved. Whilst every care has been taken to ensure that the contents of this document are correct at time of publication, ESP shall be under no liability whatsoever in respect of such contents. E&OE.

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EN54-3: 2001 +A1: 2002 +A2: 2006

Sounder Technical Data See: 26-1649

Intended for use in the fire detection and fire alarm Systems in and around buildings

Essential characteristics	Performance
Nominal activation conditions/Sensitivity, Response delay (response time) and performance under fire conditions	Pass
Operational reliability	Pass
Durability of operational reliability and response delay, Temperature resistance	Pass
Durability of operational reliability, Vibration resistance	Pass
Durability of operational reliability, Humidity resistance	Pass
Durability of operational reliability, Corrosion resistance	Pass
Durability of operational reliability, Electrical stability	Pass
Durability of operational reliability, Resistance to ingress	Pass