

WSAB1 EXTERNAL SOUNDER

Installation and Programming Guide.

1. Installation

1. Mount the WSAB1 Converter (as described in section 3).
2. Mount the WSAB1 External Sounder (see section 2).
3. Install a 6v 1.2Ah rechargeable lead acid battery and a 9v (PP3) alkaline battery into the WSAB1 sounder.

N.B. The unit cannot be triggered for Six minutes.

4. Switch Battery switch in sounder to 'ON'.
5. Fit WSAB1 Sounder cover.

2. Positioning the WSAB1 External Sounder

The WSAB1 is a wireless external sounder powered by natural daylight. Therefore it is recommended that you position the WSAB1 in an area with an optimum amount of daylight. Try to avoid area of shadows from roof overhangs or shadows from trees. Because the sounder is wireless it is also recommended to avoid positions close to metal gutters or drainpipes.

3. Mounting the WSAB1 Converter

The WSAB1 converter should be mounted vertically adjacent to the alarm control panel. Connect the following terminals:

WSAB1 Converter	Alarm Control Panel
+12v	Permanent 12v Supply
GND	Permanent 0v Supply
Bell	Siren Trigger Output
STB	Strobe Trigger Output
TAMP	Tamper Return
F/L	Fault Circuit / Zone
F/L	Fault Circuit / Zone (See Section 7 & 8)

4. Mounting the WSAB1 External Sounder.

Mount the WSAB1 externally using fixings applicable to the mounting surface. Ensure that an additional screw is used adjacent to the tamper switch to provide wall removal detection.

5. Programming the WSAB1

The WSAB1 converter and sounder are already pre-programmed. Normally you do not need to reprogram.

To reprogram:

1. Switch off the Sounder battery switch. *Ensure both batteries are connected.*
2. Ensure the converter is connected to panel.
3. Press the converter 'Learn' button for 5 to 10 seconds. *The LED on the converter will light a green colour and then switch off to indicate the converter has reset.*
4. Press the learn button once. *The LED on the converter will light a green colour for 20 seconds.*
5. Switch on the Sounder battery switch during the 20 seconds. *The converter LED will flash twice to indicate the sounder is programmed.*

6. Adding an additional WSAB1 Sounder

The converter can operate with two WSAB1 external sounders. To add an additional sounder:

1. Switch off both Sounders battery switch.
2. Ensure the converter is connected to panel
3. Press the converter 'Learn' button for 5 to 10 seconds. *The LED on the converter will light a green colour and then switch off.*
4. Press the learn button once. *The LED on the converter will light a green colour and then switch off.*
5. Switch on the Sounder 1 battery switch during the 20 seconds. *The converter LED will flash twice to indicate the sounder is programmed.*

WSAB1 Converter

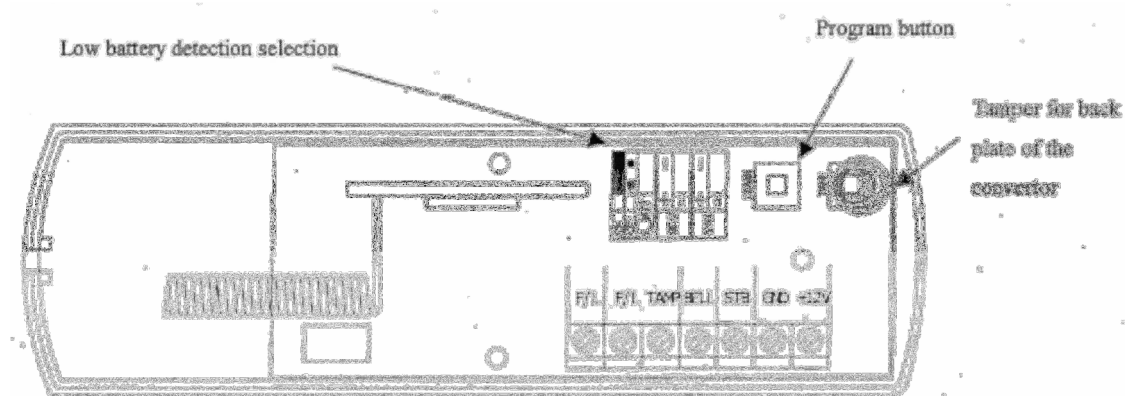


Fig 1. Converter

L BATT (Low Battery Monitoring On/Off)

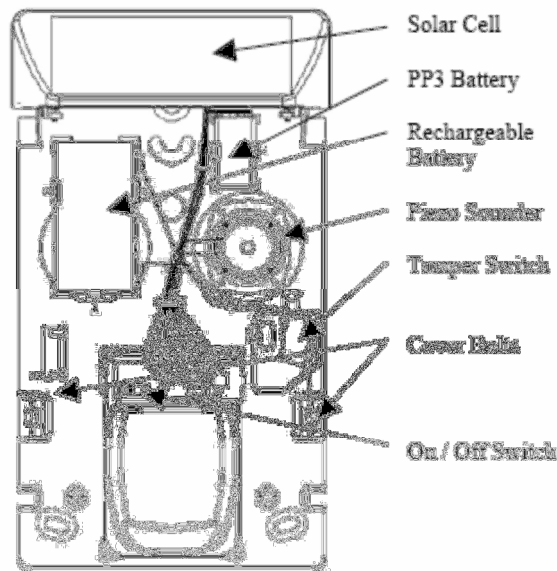
BELL (Trigger polarity +/-)

STB (Trigger polarity +/-)

LEARN (Programming button)

WSAB1 External Sounder

Fig 2. Sounder



7. Supervision

The WSAB1 sounder will send supervisory signals to the converter every hour to ensure integrity of the radio link.

If the converter does not receive any supervisory signals from the WSAB1 sounder within 4 consecutive hours a fault signal will be generated at the fault output.

8. Low Battery Signal

If the low battery jumper is set to 'on' then during a low battery condition a red LED will signal on the converter and a fault signal will be generated at the fault output.

WSAB1 Converter Specification

Housing	ABS
Voltage	12v
Current	
Standby	25mA
Transmitting	45mA
Radio System	433MHz Transceiver
Range	30 Meters Max.
Supervision	Yes
Bell Trigger	Selectable +/-
Strobe Trigger	Selectable +/-
Environmental	Class 2

WSAB1 Sounder Specification

Housing	Polycarbonate
Battery	6v SLA rechargeable 9v Alkaline
Low Battery	5.1v
Detection	
Radio System	433MHz Transceiver
Range	30 Meters Max
Current:	
Standby	1.0mA
Working	330mA
Siren Output	115dBA @ 1 metre
Strobe Frequency	1 Hz
Cut-off Timer	3 / 15 minutes
Environmental	Class 3



South Walk, Vantage Point Business Village, Mitcheldean, Gloucestershire, GL17 0DD

Tel. 01594 827070 email. sales@fmelectronics.co.uk www.fmelectronics.co.uk

FM Electronics is the Manufacturing division of **FM Security Limited**