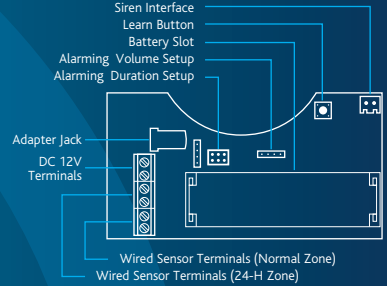# ADDM◉RE

Mains Powered External Siren
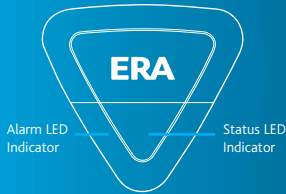
Model: WS280

1. INTRODUCTION

The External Mains Powered Siren will deter intruders by sounding an alarm once it receives a wireless signal from a connected Control Panel or Sensor. Multiple Sirens can be connected to the same Control Panel to provide additional security. When the Siren is connected to the Control Panel as an accessory, it will sound and its LED lights will flash once the system is triggered. The Siren can also be intalled as a standalone alarm system without the need for a Control Panel, by connecting it to accessories like a Remote Control, Door/Window Sensor or PIR Motion Sensor. When an accessory is triggered it will sound and its LED lights flash.
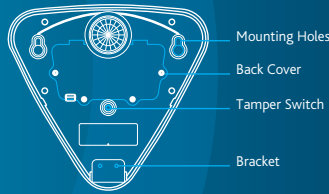
2. PCB LAYOUT

- Siren Interface
- Learn Button
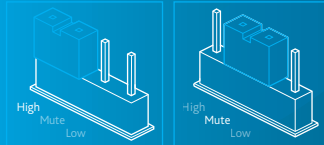- Battery Slot
- Alarming Volume Setup
- Alarming Duration Setup
- Adapter Jack
- DC 12V Terminals
- Wired Sensor Terminals (Normal Zone)
- Wired Sensor Terminals (24-H Zone)

3. PRODUCT OVERVIEW

Front View

- Alarm LED Indicator
- Status LED Indicator

Back View

- Mounting Holes
- Back Cover
- Tamper Switch
- Bracket

Status LED Indication

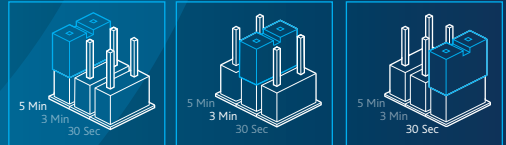| Status	LED
Arm/Home Mode	Flash once
Disarm	No light indication
No disarm operation after alarm	Flash once every 2 seconds for 2 hours

4. JUMPER SETUP

Please setup alarming volume and alarming duration time on the PCB board accordingly.

Alarming Volume Setup

High / Mute / Low

High / Mute / Low

High / Mute / Low

Alarming Duration Setup

5 Min / 3 Min / 30 Sec
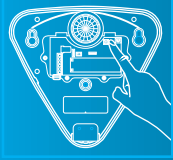

5 Min / 3 Min / 30 Sec

5 Min / 3 Min / 30 Sec

Note: *When the Siren is connected to the Control Panel, it will sound at the pre-set volume even if the Control Panel is set to mute. This is to alert the neighbours and avoid any intrusion. If you select mute on the Siren, there is no need to select mute in the Control Panel.*

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5. WORK AS WIRELESS SIREN

When used as a Wireless Siren, it should be connected with Wireless Control Panel in advance. When the Control Panel is alarming, it sounds and the strobe light flashes to deter intruders.

Connecting to a Control Panel

Press the Learn button for 0.5 seconds, Siren will beep once and enter connection status. Press the [SOS] or [🔒] on the panel (or press Arm on App if the Panel does not have a button), the Wireless Siren and Control Panel are connected successfully after one beep is heard from the Siren.

Note: *Once the Siren is in connection status, please press the Learn button again to exit. One beep will be heard from the Siren. When connecting to the Control Panel, please DO NOT trigger any other Sensors to avoid interference or pairing to a Sensor and not the full system.*

Disconnect

Hold the Learn button till 2 beeps are heard to disconnect the Siren and Control Panel.

6. WORK AS STANDALONE ALARM

When used as a standalone alarm panel, it should be connected with Sensors in advance and when the intrusion is detected, it sounds and the strobe light flashes to deter intruders.

Wired Terminals

The Siren has terminals for power supply and Wired Sensors. Just connect the power line or Wired Sensors to the hard-wired terminals. Please make sure the positive and negative are distinguished.

Power: DC 12V input

-DC12V+   24-ZONE   ZONE

Zone (normal zone mode):

Once the Sensor in normal zone mode is triggered, the system will alarm immediately.
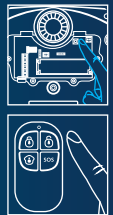
Connect & Disconnect

Maximum 40 Sensors can be connected to the Wireless Strobe Siren.

24-Zone (24 hour zone mode)

One the Sensor in 24-H zone mode is triggered, the system will alarm immediately, regardless of the alarm status. IR Beams are strongly recommended to be used in 24 Hour Zone mode.
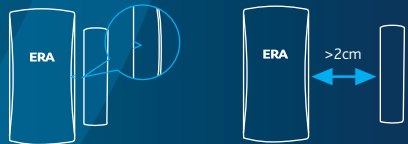
Connect with a Remote Control

Press Learn button for 0.5 seconds till a beep is heard,
the Siren enters connection status.
Press any button in the Remote Control, the connection succeeds when a beep is heard from the Siren.

Connect with a Window/Door Sensor

Put the Window/Door Sensor transmitter and magnet close in a suitable position.
Press Learn button for 0.5 seconds until a beep is heard, then separate the magnet from the transmitter over 2cm to trigger the Sensor and pair to the Siren. Note: Do not use the button on back to trigger the Sensor.

ERA   ERA   >2cm

Connect with PIR Motion Sensor

Press Learn button for 0.5 seconds till a beep is heard, the Siren enters connections status. Press test button at the back of the Sensor twice. The connection succeeds when a beep is heard from the Siren.

Connect with Other Accessories

Connecting with other accessories is the same operation; please see details in the instruction manuals for accessories.

Note: *Once the Siren is in connection Status, please press Learn button again to exit (a beep will be heard from the Siren). When 2 beeps are heard in connection status, means the Sensor has been connected before.*

Disconnect
Hold the 'learn' button in the Siren until 2 beeps are heard to disconnect the accessories from Siren

7. INSTALLATION

Installation Mode is set for users to dismount or remount the Siren without triggering the tamper switch. This enables you to make adjustments without distrubing neighbours.

Press [🔓] on the Remote Control 3 times, the Siren will go into installation mode after a long beep is heard. Any Sensor or Tamper Switch triggered during installation mode will not result in the Siren sounding alarm, but 3 beeps will be heard instead.
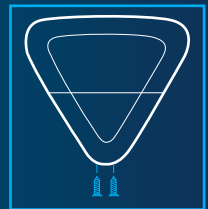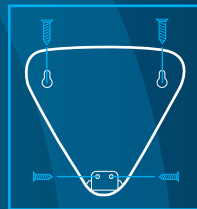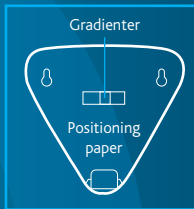
Press [🔒] button, the Siren will exit from installation mode after a long beep is heard. If no operation is carried out within 10 minutes, the Siren will automatically exit from installation mode.

Note: *Press the Tamper Switch 7 times to enter Service Mode when changing batteries etc.*

Please finish all the system setup on the PCB and enter into installation mode before installation.
1. Hold the positioning paper in right place, stick the gradienter on the positioning paper to check and adjust the position.
2. Install two screws into the top screw holes.
3. Mount the bracket onto the bottom screw holes and tighten with screws.
4. Tear the positioning paper.
5. Mount the Siren to the wall, tighten the screw and make sure the Siren is well positioned.

Gradienter

Positioning paper

8. REMOTE CONTROL OPERATION

Used as a standalone alarm, the user can use the Remote Control to Arm, Disarm, and Mute Arm or Disarm the Siren. SOS emergency can also be activated.

Arm

Press [🔒] on the Remote Control. The status LED indicator in the Wireless Remote flashes once to enter armed status and flashes once every 5 seconds later.

Disarm

Press [🔓] on the Remote Control, the status LED indicator on the remote will flash twice to enter disarmed status.

Part Arm (Home Arm)

When the system enters Part Arm status, all the Sensors in normal zone are armed except those in Home Mode zone. While the Home Mode Sensors are in disarmed status, users can move freely within the range of the disarmed area.

Press [🏠] on the Remote Control, the status LED indicator on the remote flashes once to enter Part Arm status and flashes once every 5 seconds later.

Note: *The default zone setting of the PIR Motion Sensor is Home Mode zone.*
When users press [🏠], the PIR Motion Sensor enters disarmed status.

Emergency Call

Whenever you press [SOS] on the Remote Control, the system will alarm immediately and the alarm LED indicator will flash as well. Without disarming the system, the status LED indicator will flash once every 2 seconds.

9. CONNECT NEW ACCESSORY WITHOUT REMOVING SIREN

This function is set for use to connect newly-purchased accessories without dismounting the Siren from the wall.

When the Siren is in installation mode, press [🔒] on the Remote Control continuously for 3 times, until you hear a long beep to show the Siren is in learning mode, then trigger the Accessory as normal. The Siren will exit from connection status when no operation is carried out in 15 seconds.

10. ZONE SETTING FOR WIRELESS ACCESSORIES

The zones are set through the inner jumpers of the Sensors. If the zone setting is changed, the accessories need to be reconnected with the Control Panel.
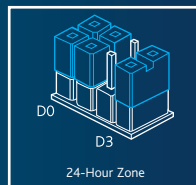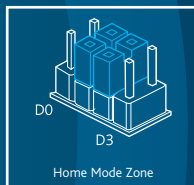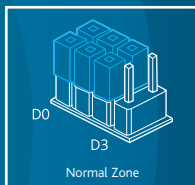
The accessory can be set in Normal Zone, Home Mode Zone or 24-Hour Zone.
Normal Zone: In Arm or Home Mode status, the system will alarm immediately once the Sensor in Normal Zone is triggered.
Home Mode Zone: In Home Mode status, the system will not alarm once the Sensor in Home Mode zone is triggered.

24-Hour Zone: In any condition, the system will alarm immediately once the 24-Hour zone Sensor is triggered.

How to set: Open the cover of the Sensor and change the array of jumpers to the corresponding zone position as below (mind the direction of D0-D3).

It is recommended to set IR Beam Sensors to 24-Hour Zone which offers full day detection.

| D0 |
| D3 |
| Normal Zone |

| D0 |
| D3 |
| Home Mode Zone |

| D0 |
| D3 |
| 24-Hour Zone |

Note: *The default zone setting of the PIR Motion Sensor is Home Mode zone. The default zone setting of Window/Door Sensor is Normal Zone.*

SPECIFICATIONS

Power Supply	DC 12V 500mA	Maximum Siren Volume	105dB
Backup Battery	18650 3.7V 1800mAh	Battery Standby Time	< 7 days
Maximum Alarm Current	rechargeable lithium battery	Radio Frequency	433.92MHz
Static Current	<350mA	Housing Material	PC+ANTI-UV, ABS
Wireless Receiving Distance	< 114mA	IR Rating	IP54
Operation Condition	<80m (in open area)	Dimensions (L x W x H)	245.2mm x 227.5mm x 72.4mm
	Temperature 0°C ~ +55°C		
	Relative Humidity < 80% (Non-condensing)		

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