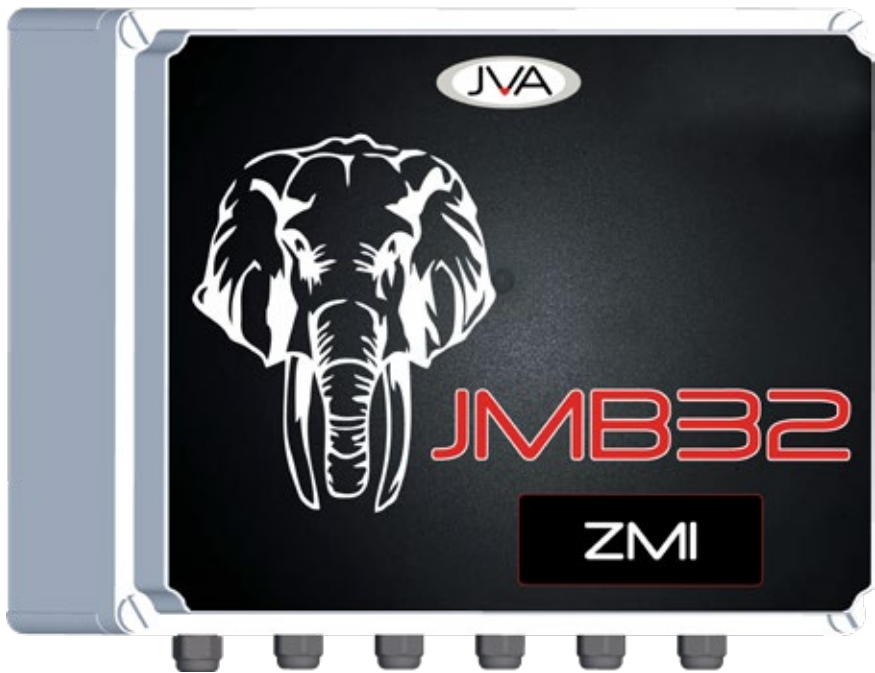**JVA Jumbo Mains Battery (JMB) Series Quick Start Guide**

**(JMBx-ZM1, JMBx-ZM2, JMBx-ZM50)**

## JVA Jumbo Mains/Battery (JMB) Series

The JMB Series is the most powerful and feature rich electric fence energizer JVA has made to date. This continues JVA's push for technical superiority in the area of Monitored Electric Fencing and IP Energizers. While the JMB was specifically designed for Game Parks and Exclusion Fencing, they are also well suited to any large permanent electric fence. The highest powered JMB series produces a stunning 46J of stored energy. At this time the JMB series consists of 6 models:

| JVA Jumbo Series Energizer | Description |
| --- | --- |
| JMB32-ZM1 (PTE2401) | 46J IP Energizer with Power Monitoring |
| JMB32-ZM2 (PTE2402) | Dual Zone 46J IP Energizer (2 x 23J) with Power Monitoring |
| JMB32-ZM50 (PTE2400) | 46J IP Energizer with 50 Sector Loop Monitoring |
| JMB25-ZM1 (PTE2404) | 36J IP Energizer with Power Monitoring |
| JMB25-ZM2 (PTE2405) | Dual Zone 36J IP Energizer (2 x 18J) with Power Monitoring |
| JMB25-ZM50 (PTE2403) | 36J IP Energizer with 50 Sector Loop Monitoring |

**Installation Instructions**

1. The complete manual is available at: www.jva-fence.com/jmb

2. Design and build your electric fence. (Beyond the scope of this guide).

3. Decide where the JMB energizer will be mounted. If on an external wall it should be housed within an equipment cabinet and not in di-rect sunlight.

4. Remove the lid of the JMB's enclosure by undoing the four large plastic bolts on the outer corners of the lid.

5. Use the provided screws and wall plugs (if needed) to mount the en-closure through the holes under the four lid bolts.

6. Wire any low voltage cables (24V power, 12V battery, Control inputs etc) to the PCB terminals after passing through the small cable glands.

7. Wire the fence and earth high voltage cables to the fence terminals after passing through the large cable glands.

8. The **unused black glands** should be sealed with a short length of round cable, to prevent insects from making their way inside.

9. If you are using a back up battery, connect it now. Note: While the En-ergizer is designed not to start when first powered up irrespective of the state of the Control Inputs, you should take care in case it starts.

10. The Battery, 12V Aux, 3V3 LEDs will be ON.

11. Re-attach the Lid using the four plastic bolts.

12. Turn AC power onto the 24Vdc power pack.

13. Arm (start pulsing) the JMB using the switch on the right side of the enclosure or by using the Virtual Keypad (refer to the Virtual Keypad section of this guide).

14. The Virtual Keypad or an optional connected Keypad will now show the fence voltage(s) and current(s).

15. Find and remove any faults on the fence using a JVA Fault Finder.

**Typical Fence Setup**

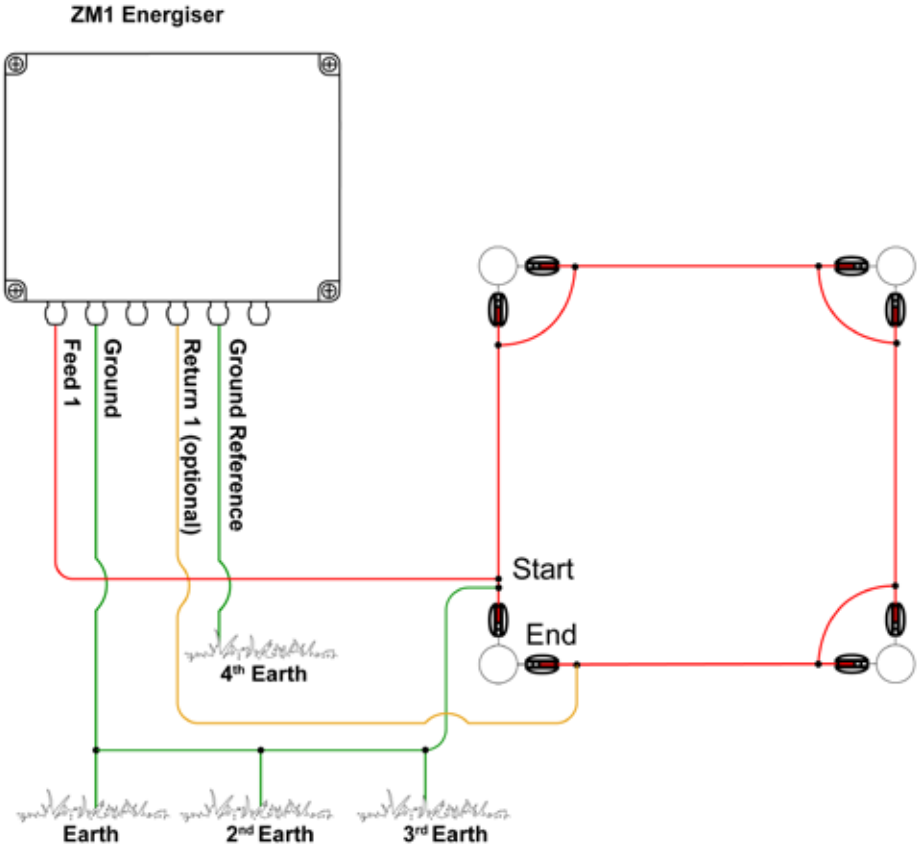The JMBx-ZM1 powers and monitors a fence using the Feed 1 and Return 1 terminals.

The JMBx-ZM2 powers and monitors up to two independent fences (zones) using the Feed 1, Feed 2, Return 1 and Return 2 terminals. The two outputs are synchronized.

The JMBx-ZM50 powers and monitors a fence using the Feed 1 and Feed 2 terminals.
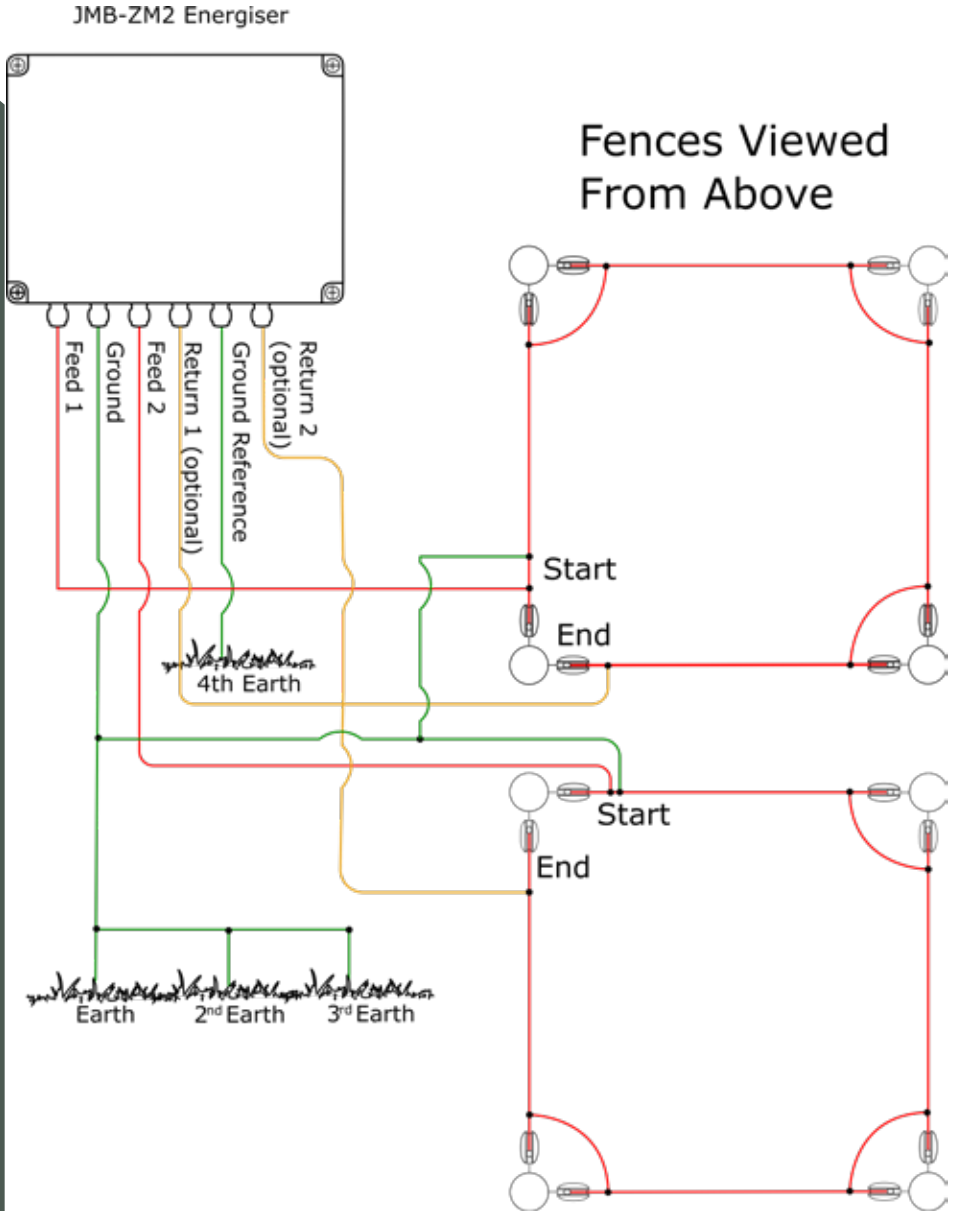
Refer to the following pages for diagrams of the typical fence setups.

**Note:** It is very important that the JMB energizer has enough earth stakes to operate correctly. Depending on soil conditions it will need at least three and up to ten may be required. Keep adding earth stakes until the ground voltage reads less than 0.4kV.
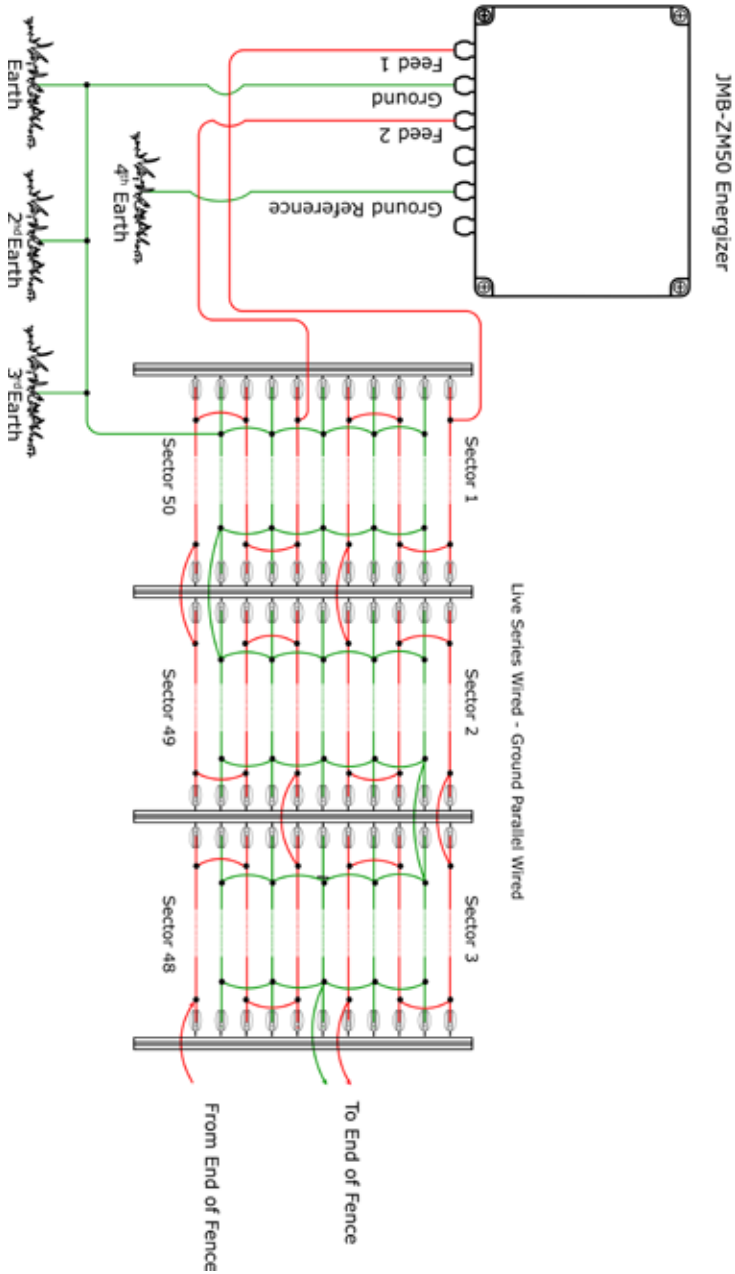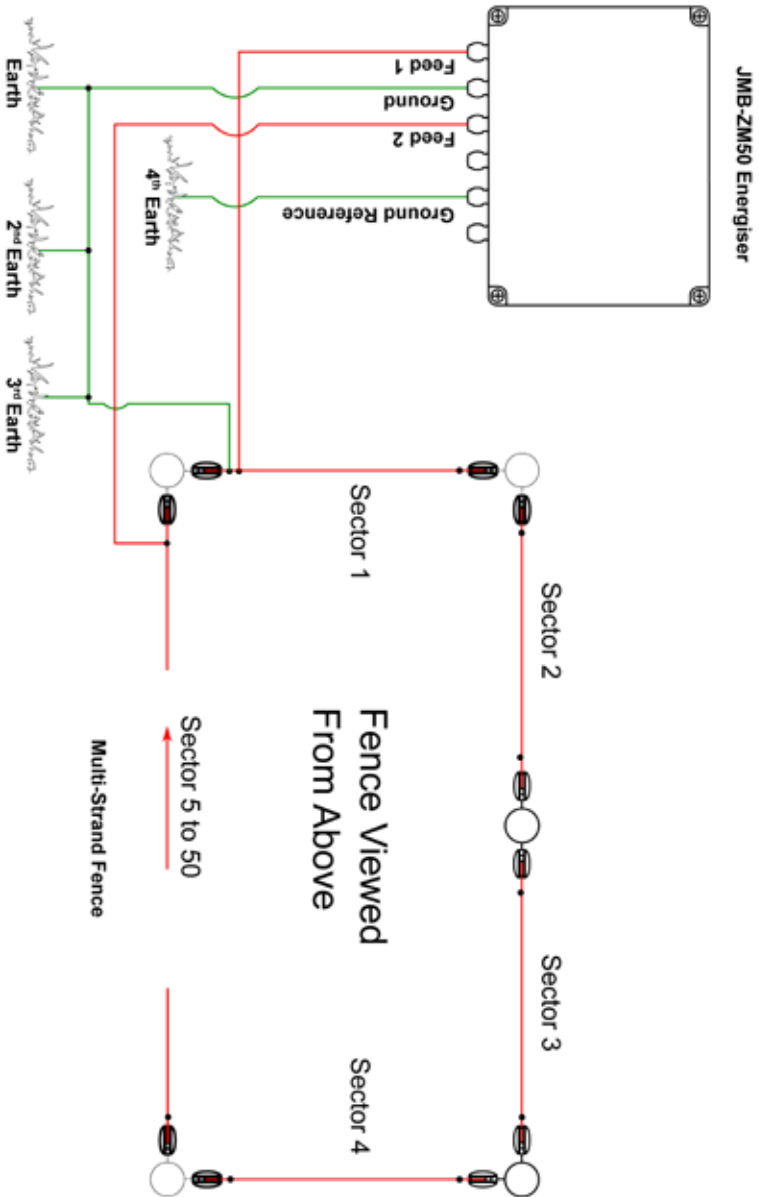
*JMBx-ZM1 Energizer*

**ZM1 Energiser**



Feed 1
Ground
Return 1 (optional)
Ground Reference

Start
End

4th Earth

Earth
2nd Earth
3rd Earth

JMB-ZM2 Energiser

Fences Viewed
From Above

Feed 1

Ground

Feed 2

Return 1 (optional)

Ground Reference

Return 2 (optional)

4th Earth

Start

End

Earth    2nd Earth    3rd Earth

Start

End

*JMBx-ZM50 Energizer*

Fence Viewed
From Above

JMB-ZM50 Energiser

Feed 1
Ground
Feed 2
Ground Reference

Earth
2nd Earth
3rd Earth
4th Earth

Sector 1
Sector 2
Sector 3
Sector 4
Sector 5 to 50
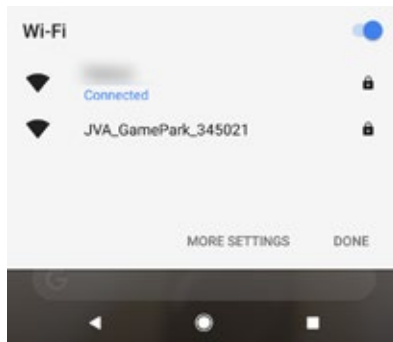
Multi-Strand Fence

*JMBx-ZM50 Energizer*

**JVA Virtual Keypad**

**Default Wifi Password: jvasecure**

**Default Installer PIN: 012345**

This section will tell you how to setup the Virtual Keypad. The Virtual Keypad is a Wi-Fi Webpage server built into the JMB. This guide assumes the unit has had no other devices connected and therefore doesn't need to be factory reset, if you want this information refer to the main manual.

1. The energizer needs to be powered, but does not need to be armed (pulsing).

2. Using your smart phone, tablet or laptop (any Wi-Fi enabled device), open the WI-Fi settings to search for surrounding Wi-Fi signals. You need to be near the JMB.

3. Your smart phone should be able to see the JMB's Wi-Fi SSID. It will look like this: **JVA_Jumbo_xxxxxx.** Where the **xxxxxx** is the JMB serial number.



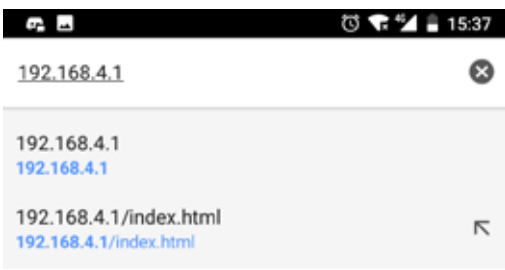4. Connect to the JMB SSID, it will then ask for a password. The default is **jvasecure**.

5.  Since the JMB SSID does not provide an Internet connection, some devices will ask you if you want to remain connected. If this occurs click the "Tap for options".



6.  To use the Virtual Keypad, you need to answer **YES** to the "Stay Connected?" questions. Tick the box "Don't ask again" if you will be connecting to this device more than once.



7.  Now you can open your devices browser such as Google Chrome and type in the following address: **192.168.4.1**. You can also use the following QR Code.



8.  You will be directed to the Virtual Keypad of the Energizer.

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