

# Honeyman Automation Solutions

Process Control, Automation & Electronic Engineering

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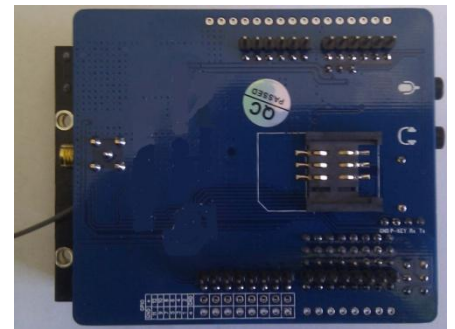
## ELECTRIC FENCE MONITOR MANUAL

The Electric Fence Monitor is a solar powered, stand alone system for monitoring the state of an electric fence. The EFM is started, stopped and checked via SMS messages sent from a mobile phone. Up to 3 phone numbers can be used to send and receive alerts sent from the system. Power is supplied from the attached solar panel and internal battery, allowing for portable and remote monitoring in the field.

### SETUP

If a SIM card has not been installed at the factory, one will have to be obtained and installed before use.

1. Disconnect one battery terminal and lay the control box on its back (solar panel facing the ground or covered). This should result in a blank display (if not contact the support team).
2. Grasping the back circuit board, gently pull the board upward and the board will separate from the bottom board connecting pins.
3. Carefully turn the back board over, and the SIM card slot is on the back. Insert the SIM card with the gold connections facing the circuit board and the angular notch matching the outline of the SIM card.
4. Reinsert the circuit board back into the base board taking care to align the pins with the base board sockets (usually easier to align the top row of pins first and gently swing the board to mate with the bottom pins).
5. If the board has been correctly installed it should be straight and square with the base board, if not reinsert again, taking care not to bend any pins.
6. Reconnect the battery, and you should be presented with a message on the LCD stating "Starting Up..."
7. After approximately 20 seconds the display should change to "1<sup>st</sup> Number..." on the first line with the default phone number on the second line. If this has not happened after about 40 seconds, this means the SIM card has not been installed correctly, so restart from step 1.

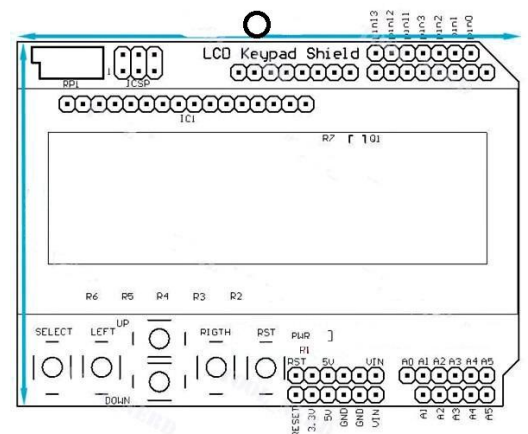


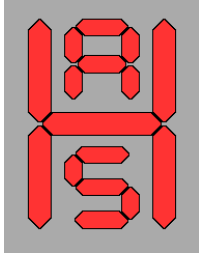
### ENTERING PHONE NUMBERS

Once the SIM card is installed and operating correctly, the phone numbers to operate the system and receive alerts needs to be inputted.

The screen will show "1<sup>st</sup> Number..." on the top line and a phone number on the second line. This is one of the three numbers that the system will respond to and send alerts to, and so they will need to be changed to your required numbers (mobile or fixed land lines can be used)

1. Press the button labeled SELECT for about ½ a second and the first digit will flash. Pressing the UP or DOWN buttons will increment or decrement the digit as required. Pressing the LEFT and RIGHT buttons allows for the user to scroll, so that each digit can be entered as required.
2. Once the phone number has been entered as required, pressing the SELECT again enters the number and the digit stops flashing indicating a correct entry.
3. Press RIGHT for about ½ a second will display "2<sup>nd</sup> Number..." on the top line and the currently set phone number on the bottom line. Editing the number as indicated in Steps 1 and 2 above.
4. Setting the third number is the same process as above. Pressing the LEFT and RIGHT buttons allows the user to scroll through the phone numbers to ensure that the correct numbers have been set.





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## CONNECTING THE EFM TO THE ELECTRIC FENCE

The EFM connects to the electric fence at the “end of the line” of the fence via a non-conducting plastic clamp that is clipped to (or near) the energized wire of the electric fence (the sensor can detect the field of an electric fence up to 100mm from the energized wire). A small LED above the LCD indicates when pulses are being detected, enabling the user to confirm the connection.

## CONTROLLING THE EFM

The EFM is controlled via SMS sent from a phone that has been entered into its memory. Only 3 commands are required, and simply sending an SMS, any one of these commands will instruct the EFM and it will respond, indicating that it has received the message and acted on it. The commands are:

start	(all in lower case, starts the monitor, and it will reply via SMS)
stop	(stops the monitor)
status	(monitor will reply with fence enabled\disabled, alarmed\no alarm and battery voltage)

## SPECIFICATIONS

Size	30cm x 40cm x 25cm
Current	100mA
Weight	7.2Kg
Solar Panel	10 Watts
Battery Capacity	12 Volt 7Ah

Approx 5 hours daylight / day to maintain charge, 3 days backup without any daylight