



 **FarmSense**



# SENSOR HUB USER GUIDE

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[farmsense.nz](http://farmsense.nz)

## GETTING STARTED

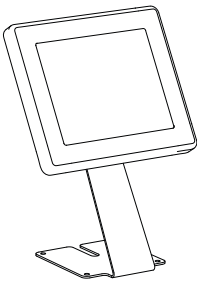
For new 4G installations follow step 1

For new WiFi installations follow steps 2 and 3

To add extra Sensor Hubs to your system follow step 3

To connect to the portal and get further help follow step 4

### 1 SENSOR HUB 4G SETUP

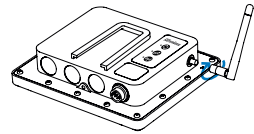


#### REQUIRED IN THIS STEP:

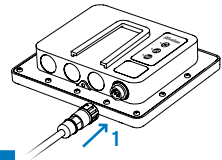
- 1 x Sensor Hub 4G /  
Sensor Hub Pro 4G
- 1 x Sensor

**NOTE:** Do this step first at the location you wish to install the Sensor Hub 4G.

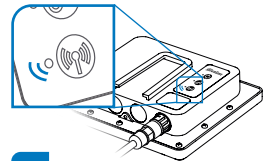
- 1.1** If your Sensor Hub came with an antenna, install it now. It should be finger tight.
- 1.2** Connect a sensor to Connector 1 on the Sensor Hub, the push-lock connector will "click" when it is correctly installed. The Sensor Hub will power on and beep twice.
- 1.3** After a few minutes the 4G LED should stop flashing and remain on. This indicates it has network coverage.
- 1.4** See step 3 to pair other Sensor Hubs to this Sensor Hub 4G.
- 1.5** See the guide that came with your sensor/s for installation instructions.



1.1

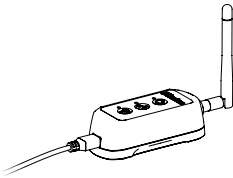


1.2



1.3

## 2 WIFI ADAPTER SETUP



### REQUIRED IN THIS STEP:

- 1 x WiFi Adapter
- 1 x Antenna
- 1 x USB power adapter
- 1 x USB power cable

**NOTE:** Do this step first at your home/office, near your WiFi Internet connection.

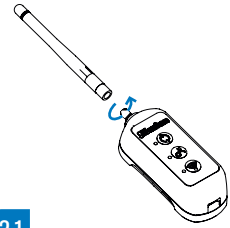
- 2.1** Install the antenna to the WiFi Adapter, it should be finger tight.
- 2.2** Connect the WiFi Adapter to power using the USB power cable and adapter plug.
- 2.3** While the WiFi LED is flashing, open your mobile phone settings (Cog icon) then select WiFi to see a list of available WiFi Networks.
- 2.4** Select the WiFi network "FarmSenseSetup" to connect.

- 2.5** A message should appear on your phone asking if you want to sign in – click yes.

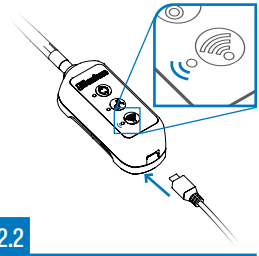
If this message does not appear, go back into WiFi settings and click on "FarmSenseSetup" again to bring up a status screen. Click the Link under "Manage Router".

If this still does not work, open a web browser and enter the address <http://1.2.3.4>

- 2.6** On the pop-up screen on your mobile phone, click on the button "configure WiFi". This will bring up a list of all of the WiFi networks that the WiFi Adapter can see.
- 2.7** Select your home/office internet WiFi network from the list available in the pop-up screen.
- 2.8** Enter your home/office internet WiFi password. If there is no password, leave this blank.
- 2.9** Click "Save". If the connection is successful, the WiFi LED will light up solidly within a few seconds. If the unit beeps twice and the WiFi LED starts flashing again, the connection process has been unsuccessful and you need to restart from step 2.4.
- 2.10** Position the WiFi Adapter in a place with line of sight to the location you plan to install the first Sensor Hub such as a window sill, but do not permanently attach the WiFi Adapter yet.
- 2.11** See Step 3 to pair Sensor Hubs to this WiFi Adapter.



2.1

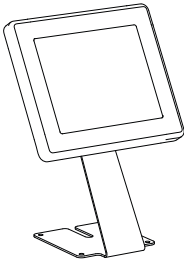


2.2



2.9

### 3 SENSOR HUB SETUP AND PAIRING

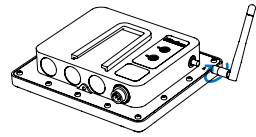


#### REQUIRED IN THIS STEP:

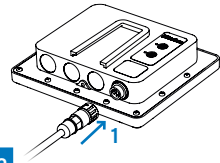
- 1 x Sensor Hub /  
Sensor Hub Pro
- 1 x Sensor

**NOTE:** *Setup your Sensor Hub 4G or WiFi Adapter first. Complete this step next to that device.*

- 3.1** If your Sensor Hub came with an antenna, install it now. It should be finger tight.
- 3.2** Connect a sensor to Connector 1 on the Sensor Hub, the push-lock connector will "click" when it is correctly installed. The Sensor Hub will power on and beep twice.
- 3.3** On the WiFi Adapter or Sensor Hub 4G, wait until no LEDs are flashing, then press and hold the Network button until you hear a single beep, the Network LED will begin to flash rapidly.
- 3.4** On the Sensor Hub, press and hold the Network button until you hear a single beep. The Network LED will begin to flash rapidly.
- 3.5** When the units have paired, both units will beep twice and the network LED on both units will be on.
- 3.6** Now is a good time to record the 10 digit Device ID on the back of the Sensor Hub and location that you plan to install it in the table at the back of this guide.
- 3.7** If this Sensor Hub is required to act as a repeater for other Sensor Hubs that do not have line of sight back to a WiFi Adapter or Sensor Hub 4G then the Repeater function will need to be enabled in the portal. See step 4 to open the portal on your mobile phone. Then go to [Settings Menu > Devices](#), tap on the Device ID of this Sensor Hub, then tap the cog icon to configure Sensor Hub Settings. Here you can set the Location Name and check the box to enable the Wireless Repeater function.
- 3.8** See the guide that came with your sensor/s for installation instructions.
- 3.9** The Sensor Hub is now ready to install. Repeat this step for each Sensor Hub you wish to install.



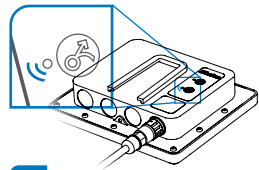
3.1



3.2



3.3



3.4





## 4 CONNECTING TO THE INTERNET PORTAL AND VIEWING YOUR DATA

- 4.1** Find the Portal registration email you received from FarmSense soon after your order was shipped and follow the link in the email to register your account.
- 4.2** After you have completed registration, open the portal and login:  
<https://portal.farmsense.nz>  
 Now is a great time to add a bookmark to your mobile phone's home screen.
- 4.3** On initial set-up, your chart will appear empty while the system gathers the initial data. You can setup your device names and alerts by going to the settings menu (⋮) in the top right.



*For further help within the portal please select the help option in the portal menu.*

## BUTTON AND LED FUNCTIONS

	FUNCTION	LED STATE	INDICATES
 <b>POWER</b>	Hold to reset (10 seconds)	ON	Unit on
		OFF	Unit off
		FLASHING	Low battery
 <b>NETWORK</b>	Hold to pair or tap to wake LEDs	ON	Network connected
		OFF	Network disconnected
		FLASHING	Sending and receiving data
		RAPID FLASH	Pairing
 <b>WIFI</b>		ON	Connected
		OFF	Disconnected
		FLASHING	Can't connect, in setup mode
 <b>4G</b>		ON	Connected
		OFF	Disconnected
		FLASHING	Sending and receiving data

**IF ALL LEDS ARE OFF UNIT MAY BE IN SLEEP MODE. TAP NETWORK BUTTON TO WAKE LEDS.**

# SENSOR HUB LOCATIONS

USE THIS TABLE TO KEEP TRACK OF THE LOCATION OF EACH SENSOR HUB:

DEVICE ID	LOCATION

## WARRANTY

All FarmSense products are warranted to be free from defects in material or workmanship for a specified period from the original date of purchase.

All our products carry a minimum 12-month manufacturer's warranty unless otherwise stated.

The terms of the warranty are that the product is fit for its intended purpose, provided it is used in a proper manner and according to the manufacturer's instructions.

In particular, the warranty does not cover non-agricultural or non-residential use.

Warranty exclusions include (but are not limited to):

- product failure outside the warranty period;
- physical mishandling, misuse, abuse or negligence;
- "acts of God" and/or "force majeure" (e.g. lightning, flood, fire, theft, etc.)
- water immersion or ingress beyond stated IP rating;
- contamination by chemicals (e.g. battery acid, etc.)
- improper power supply (e.g. incorrect voltages; surges; transients; etc.)
- attempted repair or modification by a non-authorized repair agent;
- cosmetic or surface corrosion;

- factory serial number / date-code removed or made illegible;
- damage caused by 3rd party systems or components (e.g. data network voltages, etc.);
- data loss. (Please ensure data is backed up regularly.)

If a product failure occurs within the warranty conditions then please contact FarmSense to arrange for a return to manufacturer authorisation (RMA) and instructions. A proof-of-purchase must accompany all warranty claims. The warranty liability is limited to repair, replacement or refund of the faulty product, at FarmSense's discretion.

If a product failure occurs outside of the warranty conditions, please contact FarmSense to discuss repair or replace options at FarmSense's discretion.

FarmSense, their Distributors, and their Dealers accepts no responsibility for the misuse of this product or for any accident caused by any tampering, modification or misuse of this product.

This warranty does not affect your statutory rights.

To submit a warranty claim, please visit [farmsense.nz/warranty](https://farmsense.nz/warranty)