

# Wireless Water Level Monitoring

Check levels in an instant



# Keep your No. 1 asset flowing

**A complete, simple solution  
for the monitoring and  
management of water and  
other fluids.**

Extremely easy to operate and install, the system provides peace of mind that there is water available. It helps prevent water outages by providing early warning if levels start to fall significantly. An optional wireless pump controller can also be added to ensure tank levels are maintained.



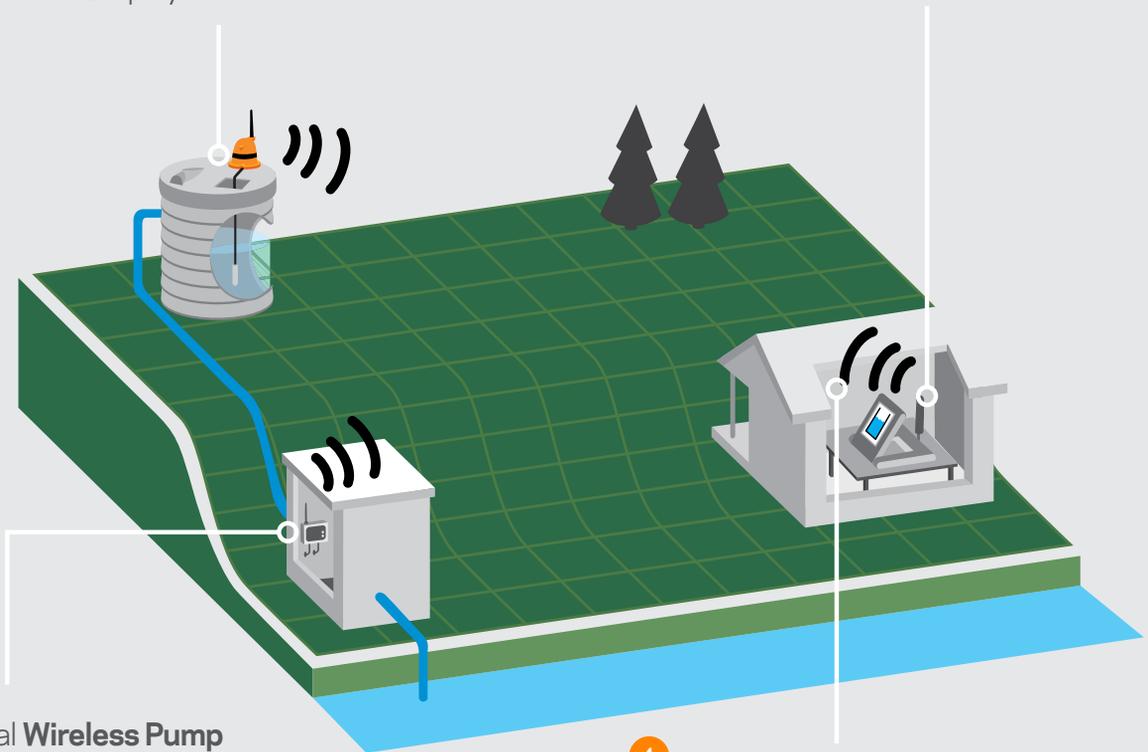
# How the system works

1

Accurately measures the liquid level in the tank based on pressure, and sends this information wirelessly by line of sight via the **Tank Unit** to the Display Unit.

2

The **Display Unit** shows in an instant how much liquid is left in the tank, saving time by eliminating the need to visit the tank/water source. It can be placed in a convenient location on the farm ensuring all staff can check the water status.



3

An optional **Wireless Pump Controller** allows remote control of the pump to ensure tank levels are maintained as required.

4

The system's range can be extended with the use of **Ultra-Long Range Antenna**.

# Display Unit

## Shows the tank information at a glance

- Desktop or Wall Mount options available
- Easy to operate high res 2.8" colour touchscreen display
- Used to set up and control the Wireless Pump Controller
- Up to nine Tank Units can be monitored via one Display Unit
- Sold separately or as part of one Tank Starter kits



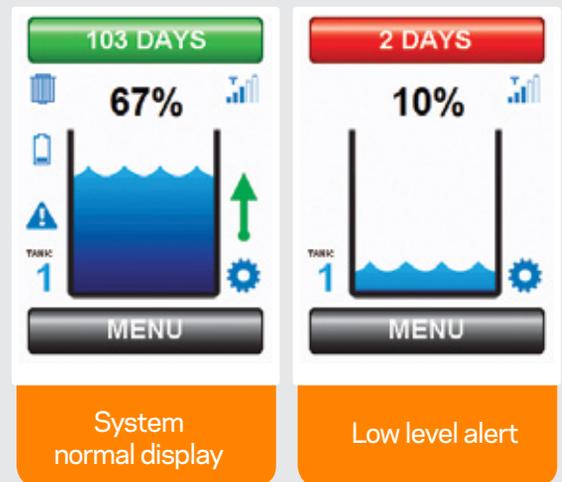
Desktop Touchscreen Display option



Wall Mount Touchscreen Display option

## Display Screens

As well as clearly showing day to day tank levels, the display will also alert the farmer to low levels and abnormal usages, so leaks can be spotted early before they become a problem.



# Tank Unit

## Transmits the data measured by the sensor to the display unit

- Solar powered - no need to change batteries
- High performance multi-directional antenna up to 4km / 2.5 miles line of sight (can be upgraded to increase range up to 10km / 6 miles)
- UV resistant marine grade plastic
- Connect up to nine Tank Units to one Display Unit
- Sold with Level Sensor



# Level Sensor

## Measures liquid level in the tank

- Measures liquids including effluent ponds, liquid fertilisers & molasses
- Super high quality Marine Grade (316) stainless steel construction
- Ruggedised polyethylene cable
- Precision locking waterproof connector
- Automatic calibration
- 4m/13ft cable (other cable length options available)
- Sold with Tank Unit



# Extend Your System

Extend the range and function capability of your Wireless Water Level Monitoring System

## Wireless Pump Controller

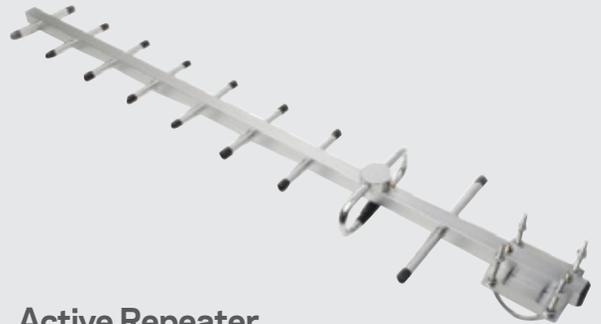
Remotely control your pump to ensure tank levels are maintained as you choose

- Automatic control using wirelessly transmitted tank level readings
- Alternatively can be used as a simple manually activated wireless control system
- Pump status is available on the Display Unit.
- Multidirectional antenna included
- Automatic stop feature in case of abnormal usage
- Set the on/off period for the pump
- 12V battery powered option also available



## Directional Long Range Antenna

- Increases range to over 10kms/6 miles
- Use two Antenna units back to back to bend signal around corners or over hills to increase range



## Active Repeater

Solar powered signal repeater, used to receive and transmit a signal when no line of sight is available

- A complete, simple solution to extend the range of a signal
- Automatically transmits and receives signal from a water tank to display unit.



## Antenna options to increase the range

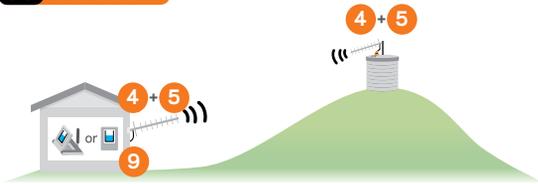
Use the diagrams to find the setup that most closely resembles the challenge - A-F

### Line of sight

Maximum range is 4km, if there is genuine line of sight. Anything in the way (e.g. hills/trees/buildings/vehicles/walls) will reduce distance. To extend range up to 10km

- Point to point - use a Directional Long Range Antenna at both ends
- Must be directly pointing to far location

#### A 1 Tank



#### B 2+ Tanks



### No line of sight

If there is no line of sight, to provide a stronger radio signal it is often beneficial to install an Active Repeater on a hill top. Choose a location that has clear line of sight to the source and the destination (tank and the farm house).

- Only one repeater can be used in a system (not designed to be daisy chained)
- Needs to face north so that the solar panel can keep the battery charged.

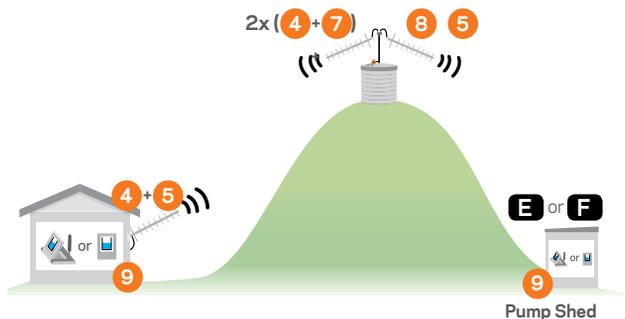
#### C 1 Tank



#### D Further Range Extension



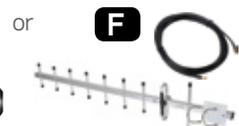
### Pump shed - no line of sight to house



Two base unit systems are needed. One automatically maintains tank level (pump shed to tank) and the other monitors tank level to confirm system is working correctly (tank to house).



3  
Improve reception  
(up to 4kms)



4+5  
Increase range  
(up to 10kms)

# Antenna options to increase the range

## Step 1

Use the product list to determine the products needed for the system - 1-9

### Multi Direction Antenna Systems

**B E**

Multi directional antennae send/receive signals to/from multiple monitored locations and base display unit.

Up to **10km** **1** **High Power External Multi Directional Antenna**  
G98506



A long life weatherproof antenna designed to be mounted externally to maximise the range and reception. Comes complete with brackets and hardware.

**2** **Cable**  
G98604 (4m) G98605 (10m)



For use with **1**  
Multi directional with SMA male to N female, 3u" gold plated connectors.

Up to **4km** **3** **External Multi Directional Antenna**  
G98504



External mounted option for standard distance installations that require improved reception to the base unit, especially useful for corrugated iron pump sheds.

### Single Direction Antenna Systems

**A B D F**

Single direction antennae send/receive signals to/from a single monitored location.

Up to **10km** **4** **Directional Ultra Long Range Antenna**  
G98500



Made from the highest quality weather resistant materials, this high performance antenna maximises range to a single location

**5** **Cable**  
G98602 (4m) G98603 (10m)



For use with **4**  
Directional Ultra Long Range High Performance low loss RG58U cable with SMA to SMA, 3u" gold plated connectors.

### Active Repeater

**C D**

**6** **Active Repeater**  
G98512



Can be utilised to carry the signal over an obstacle preventing line of sight. Only 1 Active Repeater can be used per Water Monitoring System tank unit and display only.

### Other

**7** **0.5m Cable**  
G98601



For use with **4**  
Shorter length to ensure minimal signal loss between antenna

**8** **Cable splitter**  
G98701



For use in systems that require two Directional Antenna - splits the transmission signal in half

**9** **Wall Mount Adaptor**  
G98017



For use with Wall Mount Display Units to connect to Antenna cable

# SYSTEM/PRODUCT OPTIONS:



**One Tank System  
Desktop Display**  
G98133  
Includes Desktop Touchscreen  
Display, Tank Unit, Level Sensor



**One Tank System  
Wall Mount Display**  
G98033  
Includes Wall Mount Touchscreen  
Display, Tank Unit, Level Sensor



**Tank Unit & Level Sensor**  
G98233  
Includes Tank Unit, Level Sensor



**Wireless Pump Controller**  
G98311



**Directional Long Range Antenna**  
G98501/G98503



**Active Repeater**  
G98513

Contact your local Territory Manager for more information.

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