Increasing the range of the Wireless Water Monitoring System

Gallagher offer a number of antenna systems for farmers needing to increase the read range of their Wireless Water Monitoring System. Use this brochure to find the answers to common challenges like longer distances between monitoring location and tanks, multiple tank monitoring and lack of line of sight between monitor and tanks.
Antenna Options for Wireless Water Monitoring System

Step 1
Use the diagrams below to find the setup that most closely resembles the challenge - A-F

Step 2
Then use the product list opposite to determine the products needed for the system - 1-9

**Line of sight** – 1 or more tanks with line of sight to display unit location

- **A** 1 Tank
- **B** 2+ Tanks

**No line of sight** – uses a passive repeater system to transfer the signal*

- **C** 1 Tank
- **D** 2 Tanks

*since this is a passive not powered system, signal strength will be reduced.

**Pump shed** – no line of sight to house

- 2x (4+5)
- 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).

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**Gallagher**

Improve reception
(up to 4kms)

Increase range
(up to 10kms)
Multi Direction Antenna Systems

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

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.

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

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

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.

Other

6. **Ultra Long Range 0.5m Cable**
   - G98601
   - Use specifically for passive repeater systems to ensure minimal signal loss between antenna.

7. **Cable splitter**
   - G98701
   - For use in systems that require two Directional Antenna - splits the transmission signal in half.

8. **Wall Mount Adaptor**
   - G98017
   - For use with Wall Mount Display Units to connect to Antenna cable.
## Parts list

### Starter Pack Desk Mount

**Included**
- Display
  - Desk Mount LCD Display G98114
- Tank Unit
  - Tank Unit only G98236
- Sensor
  - Stainless Steel Sensor 4m or 10m G98800 or G98801

**Spare parts**
- Power Supply
  - Desk mount power supply G98116
- Standard Antenna
  - Antenna Standard Multi Directional G98508
- Display Antenna
  - Desk Mount Antenna G98510

### Starter Pack Wall Mount

**Included**
- Display
  - Wall Mount LCD Display G98014
- Power Supply
  - Wall Mount Power Supply G98016
- Tank Unit
  - Tank Unit only G98236
- Sensor
  - Stainless Steel Sensor 4m or 10m G98800 or G98801

**Spare parts**
- Standard Antenna
  - Antenna Standard Multi Directional G98508

### Tank Unit with 4m sensor

**Included**
- Tank Unit
  - Tank Unit only G98236
- Sensor
  - Stainless Steel Sensor 4m or 10m G98800 or G98801

**Spare parts**
- Standard Antenna
  - Antenna Standard Multi Directional G98508

### Wireless Pump Controller

**Included**
- Wireless Pump Controller
  - G98310
  - Single Phase

**Spare parts**
- Standard Antenna
  - Antenna Standard Multi Directional G98508