FarmConnect®

Soil Moisture Monitoring

Farmers, more than any other part of the community, know the importance of water and the value of water use efficiency. Smart irrigation practices have been applied in agriculture for many years.

FarmConnect uses AquaSpy® which is a capacitance probe designed to measure soil moisture content at multiple depths (at every 10cm) in deep rooted plants. Available in both subsurface and above ground variants, probes are available in lengths 50cm, 100cm and 150cm. This ensures best quality and optimum yield while significantly improving water use efficiency.

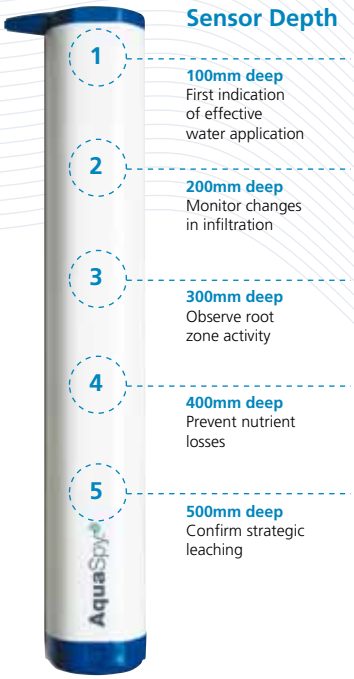
AquaSpy technology provides detailed analysis tools to allow experienced users to quickly and easily determine plant water use and the health and nature of the root structures on their crops and trees. The actual root depth can be viewed at a glance and can assist in putting together effective management practices.

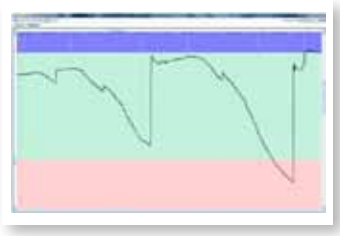
Sensor readings are provided at 10cm depths through the profile down to 100cm or 150cm to provide a soil moisture profile of the plant. It also assists in determining how the irrigation practice may need to be altered to improve the quality of the crops.

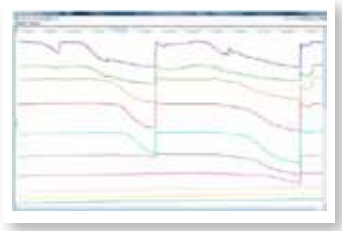
Irrigation templates use the sum graph with coloured bands to provide a visual indication of overall irrigation demand. The blue area illustrates that the soil is too wet and waterlogged and the red shows it is too dry and the crop may be in stress. The intent is to keep the soil at the right level of moisture so the sum graph is within the green zone.

Soil moisture probes provide demand management solutions for precision irrigation which accurately measure the soil water needed to:

- Maximise crop yield and productivity
- Maximise quality of product
- Reduce operating costs
- Increase profit
- Improve water use efficiency
- Minimise wasted water
- Reduce pollution by preventing nutrient movement into aquifer or river systems.







About Rubicon

Rubicon Water delivers advanced technology that optimises gravity-fed irrigation, providing unprecedented levels of operational efficiency and control, increasing water availability and improving farmers' lives.

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