

WaterForce Monitoring & Sentek EasyAG®

Making sophisticated soil moisture monitoring easier



Product Description:

The Sentek EasyAG® probe is an easy-to-install, slimline soil moisture measurement probe. Using the same proven technology as EnviroSCAN®, EasyAG® is available in two depth options – 30cm and 50cm. Both are designed to monitor crop root zones to these depths. The probes are connected to the WaterForce online monitoring system where telemetry is utilised via either conventional radio or cell phone/GPRS to send site data back to the WaterForce web portal where it is displayed for management use. If required the WaterForce monitoring system can send text messages or email notification to the user at certain trigger points in the soil profile.

How does the EasyAG® Work?

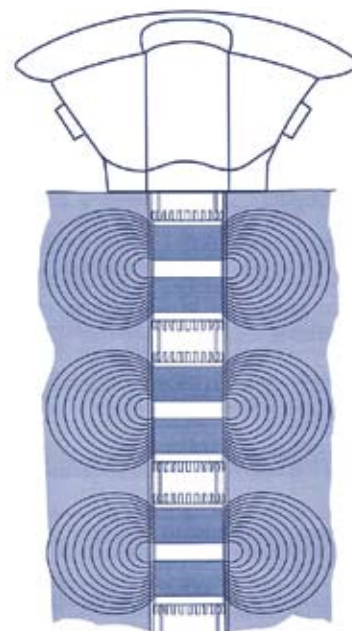
The EasyAG® 30 probe has sensors located at 10cm, 20cm and 30cm depths. The EasyAG® 50 has fixed sensors located at 10cm, 20cm, 30cm, 40cm and 50cm depths. The sensors utilise electrical capacitance to measure soil moisture. A high frequency electrical field created around each sensor, extends through the access tube into the soil, to provide an extremely accurate soil moisture measurement.

Integration

Integration is the ability to connect and bring on-farm technologies together. With the EasyAG® probe and WaterForce monitoring, you can use the world's best soil moisture monitoring technology and link this with your choice of Irrigation Controller, Weather Station and Programmable Logic Controller (PLC)

A range of connectivity is available:

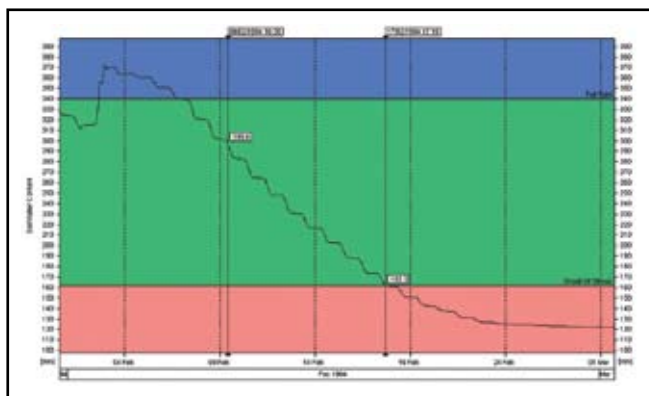
SDI-12, Voltage Output, Current Output, RS485 (Modbus or SMCP2) and RS232 (Modbus or SMCP2).



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How is EasyAG® data displayed?

The data provided by EasyAG® is displayed by logging onto your own WaterForce monitoring site. You are issued with a username and password and this will allow you or your irrigation manager to access up-to-date soil moisture data at any time of the day or wherever you may be in the world.



Features and benefits:

- **Easy installation** – proven soil moisture measurement technology can be installed in minutes making it ideal for most crop types, particularly annual crops.
- **Settling down period** – the EasyAG® installation process disturbs very little soil so accurate readings can be obtained within 2-3 weeks of installation.
- **Increase profit** – improve your crop yield and quality with informed irrigation decisions.
- **Multiple depth readings** – allows management of irrigation to minimise drainage through the soil profile, keeping moisture and fertilisers in the root zone.
- **Save money** – use existing farm management infrastructure to optimise water, fertiliser and energy use.
- **Flexibility** – to create a farm management system to suit your individual requirements.
- **Reliability and accuracy** – with proven technology that is used in over 100 different crop types around the world.

Developer - Sentek Sensor Technologies

Sentek Sensor Technologies is an Australian-based company that has been developing leading soil moisture and salinity monitoring technology which is currently used in agriculture, horticulture, viticulture, wastewater management, research, mining and environmental industries around the world. WaterForce is a Sentek licenced distributor for the New Zealand market.

Installation

EasyAG® Installation – A standard soil auger is used in conjunction with Sentek-designed tools. The standard installation technique enables EasyAG® probes to be installed across a wide variety of soils types with ease and accuracy.

In some soils a modified soil auger is used to make a defined hole into which a liquid slurry is poured to completely surround and embed the EasyAG® probe. This technique enables the probe to be installed at greater depths across a wide range of soil types with ease and accuracy.

Easy Servicing – Servicing can be conducted in field, without disturbance to the surrounding soil and roots.

