

# Why?

## The benefits of the EnviroSMART™ Probe



- ❑ **Increase profit** - improve your crop yield and quality with informed irrigation decisions.
- ❑ **Save money** - be water, power and fertilizer efficient.
- ❑ **Flexibility** - create a farm management system to suit your individual requirements.
- ❑ **Reliability and accuracy** - proven technology used by the USDA, NASA, CSIRO and IAEA.
- ❑ **Reduced wasteful leaching** - target water and fertilizer to the root zone not past it.
- ❑ **Applications** - used in over 100 different crop types and in a range of industries around the world.

# Who?

## Who is Sentek Sensor Technologies?

Sentek Sensor Technologies is an Australian based company that has been developing leading soil moisture monitoring technology for over 12 years. Sentek's products are currently used in agriculture, horticulture, viticulture, wastewater management, research, mining and environmental industries around the world. The company currently supports over 50 distributors with hundreds of sales locations around the world. Sales are serviced through this carefully selected network of qualified and licensed distributors across five continents. Sentek exports the majority of its water management products to growing markets in the US, UK, Europe, Asia and South America.

# Contact

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**Sentek** sensor technologies

**Integrating the Future**



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## Easily Integrated Soil Moisture Monitoring



For over 12 years the revolutionary force in soil moisture monitoring management

[www.sentek.com.au](http://www.sentek.com.au)



# What?



## What is EnviroSMART™?

Sentek's EnviroSCAN® system has become the world's most successful continuous soil moisture monitoring system. Now Sentek brings you the EnviroSMART™ probe, which like the EnviroSCAN®, is a multi-depth soil moisture monitoring probe. The EnviroSMART™ difference is the ability to connect to a range of other on-farm technologies, such as weather stations, data loggers and irrigation controllers.

# Installation

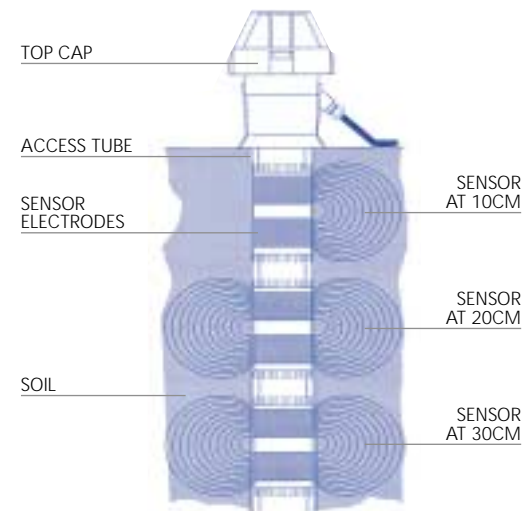
## How is EnviroSMART™ installed in the field?

Precision tools are used to install access tubes with minimum disturbance to the soil profile. Installation techniques allow EnviroSMART™ to be installed across the full range of soil types. Readjustment of sensor depths and servicing of the EnviroSMART™ system can be made in-field without disturbance to the surrounding soil and roots.



# How?

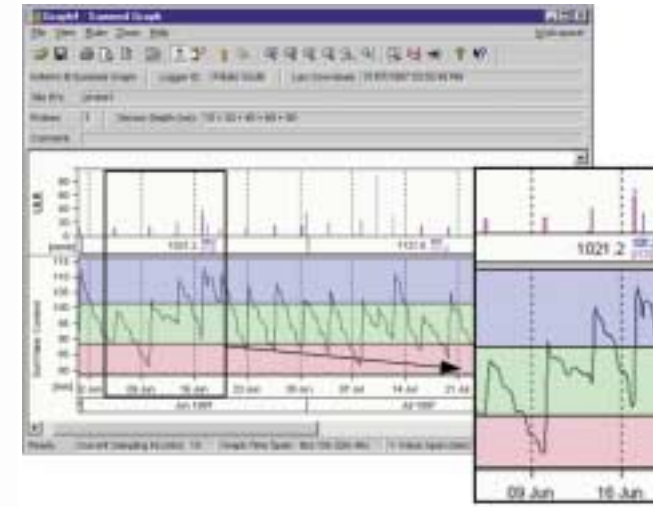
## How does EnviroSMART™ work?



The sensor utilises electrical capacitance to measure soil moisture. A high frequency electrical field, created around each sensor, extends through the access tube into the soil.

# Software

## How is EnviroSMART™ data displayed?



Multiple software options are available for users of the EnviroSMART™ probe. The data provided by EnviroSMART™ can be displayed in third party application software, or where compatible, in Sentek's dedicated irrigation scheduling software.

# Integration

## What are the integration options?

Integration is the ability to connect EnviroSMART™ probes to a range of on-farm technologies. With the EnviroSMART™ probe, you can use the world's best soil moisture monitoring technology with your choice of:

- Irrigation Controller
- Weather Station
- Sentek Logger
- Programmable Logic Controller (PLC)
- Datalogger
- Telemetry

A range of connectivity including:

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



## What are the benefits of integration?



# Benefits

- ✓ Cost effectiveness - no need to purchase unnecessary equipment such as additional loggers and radios etc.
- ✓ Ability to easily add soil moisture monitoring to existing systems.
- ✓ Create your own system - choose your preferred compatible weather station, data logger and irrigation controller.

