

Massively Reducing Irrigation through Permanent Wireless Below-Ground Monitoring

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SUMMARY

We all know that water is a precious resource and it's clear that the ecosystem is broken. Most irrigation is still done the same way has been done for generations – by eye, or now, by timer.

Until now there has been no permanent, convenient solution exists that allows this 2Tr€ industry to optimise its irrigation.

Based on over 12 years of break-through R&D, the HYDRA Scout from Soil Scout is the first wireless environmental sensor specifically designed to be buried under-ground. The Scout fits easily in the palm of your hand, and yet transmits through soil, clay, ice, snow and even stone from up to several metres below ground...and provides ongoing insight into critical Moisture, Temp and Salinity information - every hour - for up to 20 years, without maintenance.

Existing solutions all rely on some form of device sitting on top of the soil. Or wires running through the subsoil that get in the way of day to day operations on the farm. This means that existing solutions are often used infrequently... or not at all.

By being buried, Soil Scout offers out-of-sight permanence. This enables farmers to have a 365x24 insight to below ground conditions, allowing them to make informed decisions and thus the potential to reduce their water consumption and associated energy costs by up to 50%.

We will explore how permanent buried insight can fundamentally change the approach to responsible water management.