Viridix

IRRIGATE.
RIGHT.

Know what every plant feels, all the time, so you can achieve your irrigation goals across plots.

Viridix

generates ongoing, accurate soil moisture data, creates actionable insights, and sends timely irrigation alerts directly to your app.

Sense

- **Water potential** sensors for highest accuracy measurement available in the market.
- **Wireless** connection to the internet cloud.
- **Solar powered** to self charge.
- **Multi depth** to measure soil moisture at multiple depths.
- **No maintenance** to make your life easier.

Analyze

- **Easy to use** decision support system, built for growers.
- **Alerts** for under or over irrigation & weather conditions.
- **Recommendations** to maximize field performance.

Act

- **Irrigate** according to your field's needs.
- **Save water** to lower your expenses.
- **Grow more** to increase profits.
- **Optimize** for diversities in the field.
- **Manage stress** to raise crop quality.

Viridix empowers farmers
by taking uncertainty out of irrigation decisions.

By combining accurate and timely water potential data with additional information such as **weather, irrigation protocols and soil characteristics**, Viridix simplifies and automates one of the most important activities in farming.

Optimal irrigation helps farmers optimize productivity, reduce resource consumption, and **improve sustainability**.

The Viridix solution is based on revolutionary **RooTense®** technology that is cost effective, requires no maintenance and is extremely easy to use.

This advanced **IoT based solution** leverages **AI and machine learning** to deliver precision irrigation, taking it to the next level with full-irrigation-cycle automation.

In an age where resources are depleting, and more food is needed, the Viridix platform has the potential of becoming a game-changer company that helps large and small farmers **produce more with less** by using data-driven decisions, optimizations, and Automation.

www.viridix.com

Sense

The patent pending **RooTense®** technology-based sensor, imitates the plant's roots by measuring every critical parameter of the soil and transmits them to the cloud in real-time.
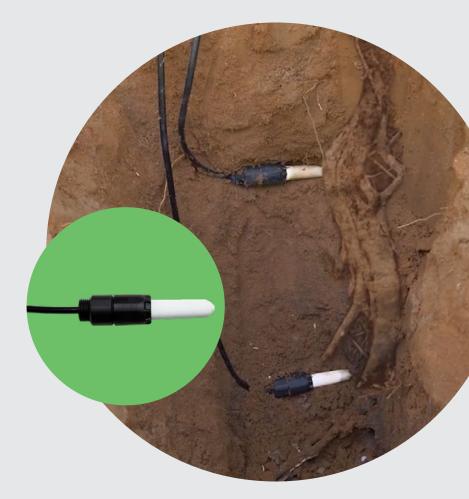
The sensor measures the **Water Potential**, meaning the available water to the roots with the specific conditions in the soil at the moment (Soil content, water conditions, temperature etc.) This is done by a patent pending **sensor that requires no calculations, maintenance or calibration.**

Unlike other sensors that measure an electrical parameter in the soil together with many other parameters, data and calculations trying to understand the real water conditions in the soil, the **Viridix** system senses what the roots are really feeling.
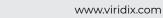
By doing this, the Grower gets a **One-Scale measurement** of all his fields and with that, he can operate his irrigation system on the same parameters all over his land.

By knowing the water potential in every plot, the grower can make the best optimization of his irrigation protocol.

Viridix

Analyze

The **Viridix Connect** system collects data from any relevant sources like other sensors, satellites, API's and more. In addition, it uses AI and machine learning tools, to enable the grower to create his own **irrigation algorithm.**

SMART
IOT
SYSTEM

Viridix has become an enabler for 3rd parties like autonomous farming, irrigation controllers, and farm management companies that require an **accurate and reliable data stream.**

544
%

57
%

86
%

5   Viridix

Act

By connecting to the **world's greatest irrigation controllers,** Viridix enables the farmer fast implementation of his smart irrigation protocol in every plot of his fields and to manage irrigation from anywhere he wants from his phone or computer.

Smart
Irrigation
Protocol

The combination of stable and accurate water potential measurement, a **smart IOT system**, a sophisticated yet easy to use **AI and Machine-Learning** based irrigation protocol wizard, with the ability to open and close the valves accordingly, creates the best autonomous-irrigation system in the world.

Viridix

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