



BACSOFT MONITORING AND CONTROL OF SOIL MOISTURE

THE CHALLENGE

The technology of cultivating food demands a perfect balance of water to soil to create the best growing environment. Keeping the moisture level constant and providing the exact amount of water is nearly impossible without the Internet of Things.

THE SOLUTION

Bacsoft offers advanced IoT technology that connects soil moisture sensors and tensiometers to optimize irrigation schedules and soil moisture levels, simply and cost-effectively. With Bacsoft, you can remotely control a large number of fields or green houses over great distances, even without a reliable electricity source, to activate irrigation, control flow, monitor moisture levels and act quickly in response to machinery failure or changing weather conditions.

THE SOIL MANAGEMENT SOLUTION

- Humidity sensors or tensiometers to install at different depths
- Cellular connectivity and low-maintenance battery operation
- Continuous measurement of soil conditions
- Web and mobile HMI
- SMS and email alarms
- Additional connection to flow meters, weather stations, dendrometers and other sensors





THE BENEFITS

- Optimized crop production; increased yields
- Conservation of water and energy resources
- Cost savings, water savings
- More accurate irrigation
- Easy to deploy, use and expand
- Alerts for machinery failure or changing weather
- Complete remote access via PC, tablet or smart phone
- Full service turnkey solution

SPECIFICATIONS

- Bacsoft Smart Controller: Standard or Low Energy, depending on field conditions. 5-7 years battery operated. IP68 casing. Digital, analog and serial ports.
- 3 tensiometers or moisture sensors in different depths
- Control sensors remotely by directly connecting sensors to the controller or PLC
- Measurement and graphing of all parameters from multiple sensors

