



IRRIGATION SYSTEM HEALTH MONITORING



Knowing the condition of your irrigation system gives you control and peace of mind. Irrigation System Health Monitoring works as a standalone monitoring system or together with other Observant solutions for comprehensive farm water management.

The Observant system lets you know what pressure gauges, flow meters and other devices are recording now, as well as historically. Automated text messages highlight specific equipment failures and other status changes.

Observant monitors any irrigation application

Whether accessed from your computer, tablet or smartphone, the Observant Global™ platform can monitor your entire farm, whether you have one or multiple sites. You can have continuous monitoring and control of:

- Drip and micro irrigation
- Furrow irrigation
- Pivot irrigation
- Solid set irrigation



Observant Global™ images are for illustrative purposes only

Observant has the capabilities you need

The Observant system monitors what you need, when you need it. It has the capabilities to match any farming situation.

Flow Rate Monitoring

Each zone's flow rate can be monitored for broken lines, plugged emitters or other concerns.

Totalized Flow Monitoring

Totalized water volume per irrigation event, week or season is recorded, so you can analyze crop water use and document withdrawals.

Zone Pressure Monitoring

Proper manifold pressure ensures proper zone operation and improved distribution uniformity. You can combine this with Flow Rate Monitoring for deeper insight into zone health. You'll be alerted if high- or low-pressure conditions occur.

Filter Pressure Monitoring

Monitoring pressure at the filter output or the pressure differential across the filter alerts you if it's time to backflush.

Backflush Monitoring

Monitoring the output of an independent, filter-backflush controller detects changes in backflush frequency that can highlight problems with your filter or water supply.

Irrigation system health monitoring can be deployed using these Observant telemetry units:

- C3 Gateway, C3 Cell, C3 Node
- Solo Cell

Interface to your farm using third-party input devices:

Flow Totalizing Meters

- Pulse output flow meters including major brand such as McCrometer and SeaMetrics

Flow and Pressure Detection

- Generic flow switch, relay output
- Generic pressure switch, relay output

Pressure Measurement 0–100 PSI)

- Schneider OsiSense 4–20 mA 100 PSI pressure sensor
- Generic pressure sensor, 4–20 mA output, user calibrated

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