PUMP MANAGEMENT

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Efficient management begins with your pump. Knowing the status of your pumps and having the ability to control them remotely can improve the operation of your entire farm while reducing labor and improving reliability.

Observant helps you monitor and control pumps remotely and efficiently through a reliable, cloud-based platform. With an Observant-supported interface, you can monitor and control an electric motor or diesel engine-driven pump. You can also combine additional Observant solutions to maintain reservoir water levels or deliver water to irrigation systems.

The Observant platform puts you in control of your farm's water

Whether accessed from your computer, tablet or smartphone, the Observant Global platform can monitor your entire farm, whether you have one or multiple sites. Use Observant's Pump Monitoring solution to:

- Monitor and control your pumps from anywhere
- Manage energy cost and usage
- Optimize your pump application (irrigation, reservoir level control etc.)

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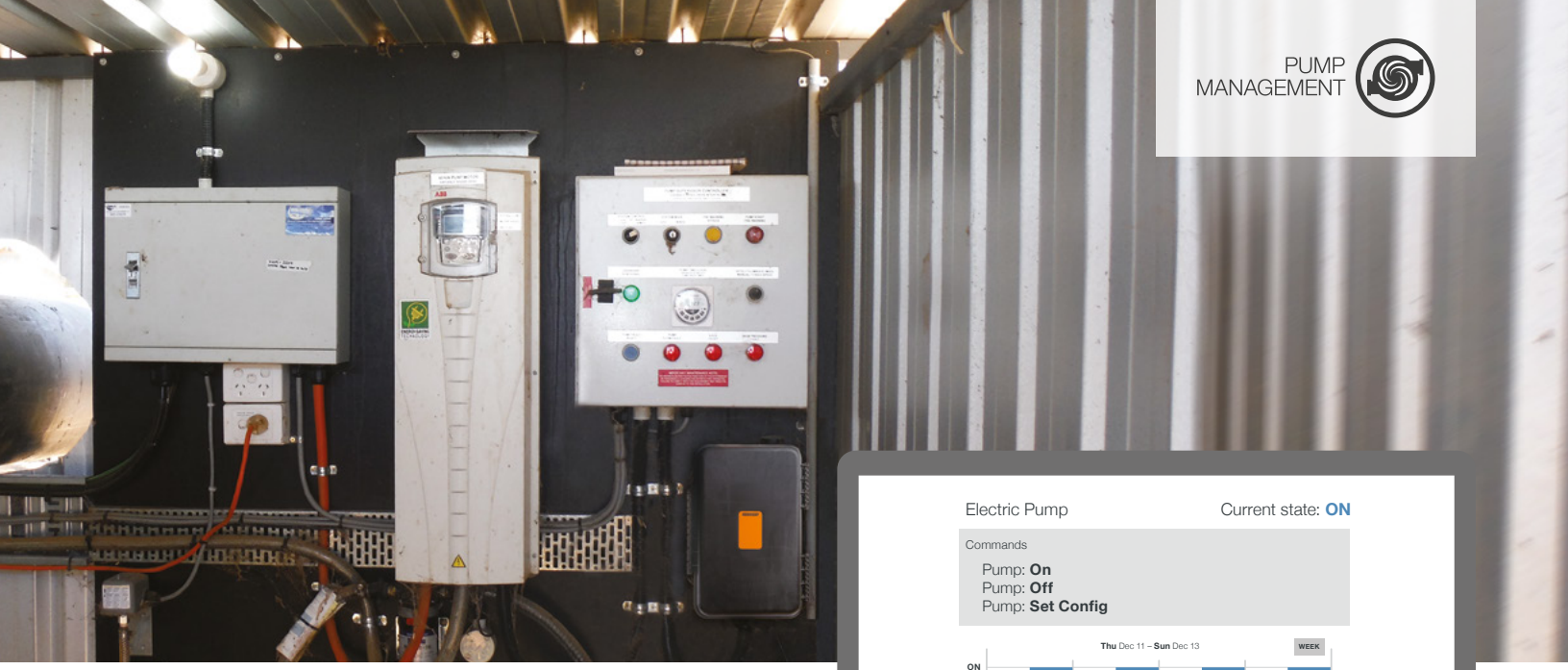

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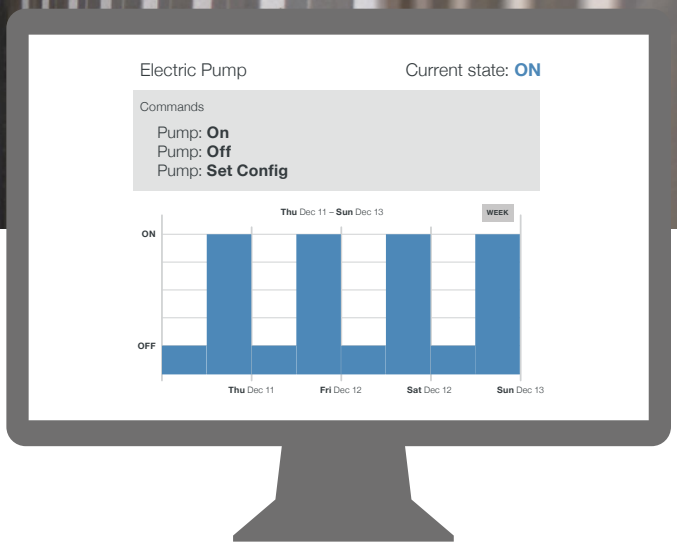

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Observant has the capabilities you need

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

Monitor Pump Run Status
When you know when your pump is on, you can use this information directly or as input to other Observant solutions such as Irrigation Scheduling.

Monitor Pump Alarms
Text messages instantly alert you if you need to take action with your pump.

Monitor Pump Input/Output
Observe pump input and output through flow or pressure switches to be assured of proper operation.

Remote Start and Stop
Start and stop your pump from your computer, smartphone or tablet.

Integrate with more Observant Solutions
Engage Pump Management as the key component of Irrigation Scheduling, Water Level Control and Energy Management.

Safety
Safety is a primary design goal of any pump application. Remote monitoring capability does not replace the need for on-site monitoring or hardwired safety shutoffs and remote control capability increases this need. Local hardware overrides to remote controls and other failsafe features should always be implemented.

*On-site installation including starter drive (if applicable), contactor, emergency stop and appropriate fail safe circuits is not provided by Observant and must be managed by a qualified electrician. Observant C3 will interface with a relay or contactor coil for on/off control.

Pump control can be deployed using these Observant telemetry units:

- C3 Gateway, C3 Cell, C3 Node

Interface to your farm using third-party input devices:

Pumps
- AC motor driven pump via relay control*
- DC motor driven pump via relay control*
- Diesel motor driven pump via engine controller*

Engine controls
- Murphy MPC-20 Diesel Engine Controller

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

OBS-MKT-BR022

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