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iControl
Pump

AUTOMATION AND REMOTE MANAGEMENT TOOL FOR PUMPING

What's iControlPump?

iControlPump is the automation and remote management tool for pumping that lets you manage your system from any computer, tablet or mobile phone.

Manage and program the pumping and irrigation processes in a centralized, remote way for all your property from anywhere in the world.

With iControlPump you can save up to 30% energy by adjusting the minimum pressure needed in your pump station in real time.

Associated with frequency inverters for your pumps, iControlPump provides a dynamic pressure set point to reduce the pressure and consumption of the pumps. A pressure optimization algorithm checks in each pivot if they lack or excess pressure to readjust the setpoint to their pumps.

Features:

- Remote control and automation.
- Start/Stop for electric/fuel/solar pumps.
- Pressure set-point regulation.
- Pressure sensor reading.
- Water meter reading (flow and total volume).
- Control of two auxiliary devices (generator, fertigation, etc.)
- Solar powered as an option (allows the running of a generator to power the pumps
- On-screen graphic display of the general status.

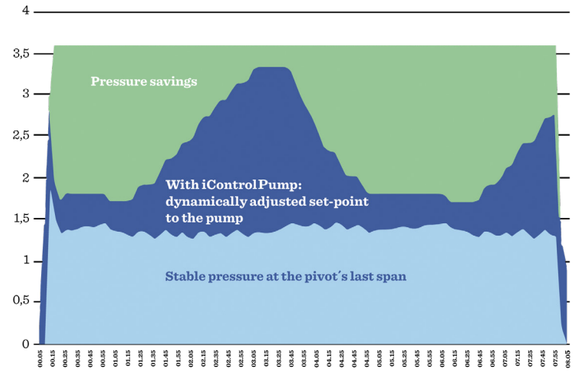
What are the benefits of using iControlPump?

- Pumps complete remote and automation management.
- Save up to 30% energy by adjusting the minimum pressure needed in your pump station in real time.
- Seamless connection between pump and pivot.

When to use iControlPump to save energy?

1. When the pivots are located kilometers away from your pumps.
In this case, the use of buried control cables between your pivots and pumping station for starting and stopping the pumps is no longer necessary with iControlPump. Communication now occurs through cloud services. This advantage brings economic savings in terms of materials and installation.

2. In terrains with slopes.
If a pivot is installed on a sloped terrain, iControlPump will adjust the pumping pressure to the level needed at the last sprinkler. The pressure read by iControlRemote at the last tower remains constant, reducing pressure during downhill pivot movement and increasing it during uphill movement. It's no longer necessary to maintain high pumping pressure when the pivot is in a low elevation area.



3. In hydraulic networks shared by multiple pivots.
When supplying a hydraulic network for several pivots, when they are not irrigating simultaneously, the flow in the network will be lower than the maximum flow for which the network was designed. Hence, there will be less head loss in the pipes, allowing a reduction in pumping pressure and consequently lowering energy consumption. iControlPump pressure optimization algorithm detects this reduced head loss by reading the pressure in the irrigating pivots and ignoring the non-watered ones.