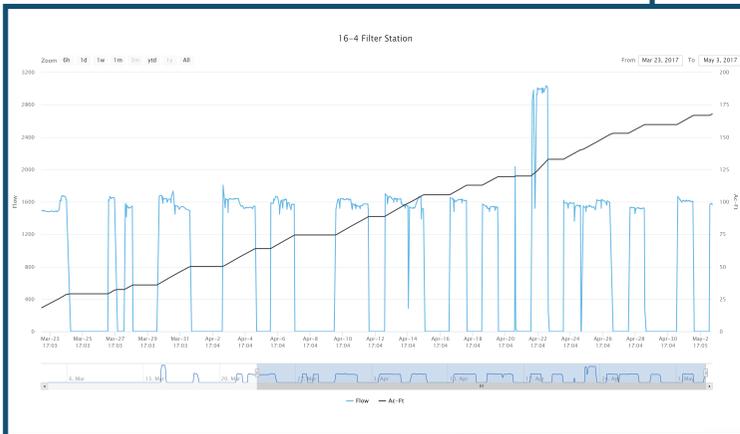




rSight Nodes

rSight nodes allow for simple, economical monitoring of data from across the farm. Utilizing LoRa radio technology, rSight nodes combine long range (up to 10 miles) with long battery life. A wide selection of interface options offer maximum flexibility in sensor options.

rSight nodes integrate with most commonly used flow meters, soil moisture sensors, weather stations, and VFDs. They can also capture data from a wide variety of other sensors, including pressure and depth transducers, power sensors, and many others. Configurable alarms via email or text message keep you informed about the status of your irrigation system, wherever you are.



Benefits

- Measure and optimize your irrigation system
- Automate data collection for flow meters and groundwater depth
- Detect equipment and well failures before they happen
- Configurable alarms to keep problems from becoming disasters

Node Specs

Digital Input:

- Opto-isolated
- Configurable Pull-up to 12V or Battery
- 12V Output for External Circuits

Serial:

- RS-485/Modbus
- RS-232
- SDI-12
- I2C

Radio:

- LoRa
- Range up to 10 miles

Battery:

- 19Ah Lithium Thionyl Chloride

Environmental:

- Temperature: -40 – 85C or -40 – 158F
- Enclosure - IP65

Compatible Sensors:

- Flow Meters – Seametrics, McCrometer, Netafim
- Pressure Switches
- Pressure Transducers
- Depth – Transducers and Acoustic Sensors
- Weather Stations
- Soil Moisture
- Energy
- VFDs
- Vibration
- Solutions available for many additional sensors and interfaces

Calculated Information:

- Pump Efficiency
- Static water levels
- \$/Acre-foot
- Cost of energy (TOU energy plans supported)
- Applied water

Configurable Alarms:

- High pumping cost
- Low water in well
- Blowout detection
- Power outage/restoration
- Low Efficiency
- High/Low Temperature
- Filter plugged
- Custom alarms available

Gateway Specs

Power:

- 480V 3-Phase or 110V Single Phase
- 36W Max
- 9 W in standard configurations
- Other input voltages available

Serial:

- 1 Channel RS-485/422
-Default configuration as RS-485-Modbus

Modem:

- CDMA, GSM, and 4G LTE options available

Data Options:

- Standard sampling at 5, 15, or 60 minute intervals. Custom options available
- End-to-end SSL encryption

Environmental

- Temperature: -20 – 70C or -4 – 158F
- Enclosure - Steel, NEMA 3R

150HP VFD w/ 75HP Booster	South 75HP w/ 60HP Booster
OFF since 9-23-15, 14:50:01 (2 days ago) <small>Updated 2 days ago at 9-11-15, 16:55:01</small>	OFF since 9-14-15, 16:30:01 (2 days ago) <small>Updated 2 days ago at 9-11-15, 16:55:01</small>
Warnings:	Warnings:
Efficiency is low	None
\$/AF \$25.34	\$/AF \$27.34
Flow 1380 GPM	Flow 1140.60 GPM
Total Efficiency 51.95 %	Total Efficiency 56.37 %
Depth -114.02 ft	Depth -146.11 ft
Main Efficiency 52.88 %	Main Efficiency 52.58 %
Booster Efficiency N/A %	Booster Efficiency 59.61 %
Main Energy 215152.70 kWh	Main Energy 98309.30 kWh
Booster Energy 23344.70 kWh	Booster Energy 92339 kWh
Total Power 120.38 kW	Total Power 107.34 kW
Main Pwr 120.38 kW	Main Pwr 49.49 kW
Booster Pwr 0 kW	Booster Pwr 57.85 kW
Main Pressure 56.77 PSI	Main Pressure -10.81 PSI
Booster Pressure 54.91 PSI	Booster Pressure 58.79 PSI
Static Depth -34.08 ft	Static Depth -64.14 ft
Temperature 102 F	Temperature 97 F
Total Energy 238497.41 kWh	Total Energy 190648.30 kWh
Total Flow 464.17 Ac-ft	Total Flow 286.49 Ac-ft
▲Less	▲Less

