Pumpsight

Pump Efficiency Solutions

The revolutionary Pumpsight system allows you to monitor and optimize your irrigation system like never before. Pumpsight monitors well depth, power consumption, water flow, and pressure to provide real-time information on pump efficiency and irrigation system health. All data is available in real-time on computer, tablet, or phone.

Pumpsight integrates with most commonly used flow meters, VFDs and pressure transducers. It can also capture data from a wide variety of other sensors, including weather stations, EC sensors, pH 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**
- **Collect long-term information to gauge the health of your aquifers**
- **Detect equipment and well failures before they happen**
- **Configure alarms to keep problems from becoming disasters**

150HP VFD w/ 75HP Booster	
OFF since 9-23-15, 14:50:01 (2 days ago)	
Updated 2 days ago at 9-11-15, 16:55:01	
Warnings:	
Efficiency is low	
$/AF	$25.34
Flow	1380 GPM
Total Efficiency	51.95 %
Depth	-114.02 ft
Main Efficiency	52.88 %
Booster Efficiency	N/A %
Main Energy	215152.70 kWh
Booster Energy	23344.70 kWh
Total Power	120.38 kW
Main Pwr	120.38 kW
Booster Pwr	0 kW
Main Pressure	56.77 PSI
Booster Pressure	54.91 PSI
Static Depth	-34.08 ft
Temperature	102 F
Total Energy	238497.41 kWh
Total Flow	464.17 Ac-ft
Less	

South 75HP w/ 60HP Booster	
OFF since 9-14-15, 16:30:01 (2 days ago)	
Updated 2 days ago at 9-11-15, 16:55:01	
Warnings:	
None	
$/AF	$27.34
Flow	1140.60 GPM
Total Efficiency	56.37 %
Depth	-146.11 ft
Main Efficiency	52.58 %
Booster Efficiency	59.61 %
Main Energy	98309.30 kWh
Booster Energy	92339 kWh
Total Power	107.34 kW
Main Pwr	49.49 kW
Booster Pwr	57.85 kW
Main Pressure	-10.81 PSI
Booster Pressure	58.79 PSI
Static Depth	-64.14 ft
Temperature	97 F
Total Energy	190648.30 kWh
Total Flow	286.49 Ac-ft
Less	

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DATA

Primary Inputs
- Water Flow
- Energy consumption
- Well water depth
- Water Pressure - After each pump and filter stations

Optional Inputs
- Temperature
- VFD Frequency
- Electroconductivity, pH, turbidity, water temperature
- Weather station options available
- Solutions available for many additional sensors and interfaces

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

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

POWER

Input
- 480V 3-Phase 60Hz
- 110V Single Phase 60Hz
- Other input voltages available

Power Consumption
- 120W Max
- 9W In standard configurations

INPUTS

Analog
- 4 channels
  - Configurable as 4-20mA or 0-5V Imput 1% accuracy
- 2 Channels
  - Thermistor temperature inputs

Serial
- 2 Channels RS-485-422
  - Default configuration as RS-485 Modbus
- 1 Channel RS-232
- 1 Channel SDI-12
- 1 Channel I2C

Flow Pulse
- 2 Channels
- Optoisolated
- Configurable for pulse or frequency input
- Configurable pull-up
- Compatible with most commercial flow meters including McCrometer/WaterSpecialties, Seametrics, and Netafim

DIGITAL IO

Input:
- 2 Channels optoisolated input, configurable pull-up
- Input range 6-30V

Output:
- 2 Channels 500mA @24V output

Power outputs
- 24V switched power

Other:
- 4 Line OLED Display
- Battery Backup
- Integrated SD Card

CLOUD DATA

Modem:
- CDMA, GSM and LTE options available
- End-to-end SSL encryption

Data options:
- Standard sampling at 5 or 15 minute intervals. Custom options available

ENVIRONMENTAL

Temperature Range:
- -20C - 70C or -40 - 158F

Enclosure
– Steel, NEMA 3R