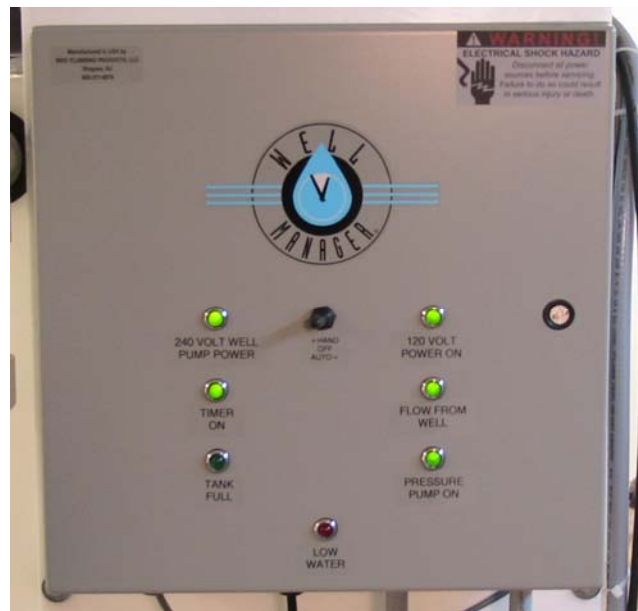


# Well Manager<sup>®</sup> Basic Control Package



Collect entire well production  
Or limit the amount withdrawn  
Fill a pond, tank, cistern or  
tower using our

## Basic Control Package:

- Nema 4, UL/cUL listed pump control runs well pump on field adjustable timed cycles.
- Control includes circuit breakers
- All parts replaceable
- Control is dual voltage and can be used for direct control of 240 volt or 120 volt well or pressure pumps to 2 HP
- Run larger pumps using separate motor starters not included
- LED function lights on door for long life & easy trouble shooting – even on the phone!
- Control has accessory connection points for solenoids, fans, blowers, chem. feed pumps
- HOA switch on door permit manual operation of well pump
- Built in 24VAC power supply for level control will run low voltage accessories
- Over Fill Shut Off device turns well and pressure pumps off if system overfills. Must be manually reset in this condition so owner knows there is a problem before damage occurs
- Ultra sensitive flow detector is immune to well grit, turns well pump off instantly if water fails to arrive at storage tank.
- Backflow preventer protects the aquifer from treatment chemical contamination
- Low water float protects delivery pump
- Operate optional remote alarm for low stored water condition



Tank Level Control with OverFill ShutOff and optional remote level display



Flow Detector Assembly mounts in well line before it enters tank

**Electrical requirements:** Two dedicated circuits. One 240V 20 amp circuit will operate well pump. The control circuits require a 120 volt feed which could also power the pressure pump if it is a ½ hp 120 volt pump. If the pressure pump is 240 volt, there will be dedicated circuit required for that.

The control is designed for dual voltages and will run pumps with 240 or 120 volt motors. There is a built in 24VAC power supply that operates tank level controls and can operate other 24 VAC accessories.

Sold by:

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REV: 11/09

Well Manager<sup>®</sup> Systems are protected by US Pat 6077044 & 6682309  
Canadian Patent 2257743

Made in the USA by Reid Plumbing Products, LLC Hopewell, NJ  
800-211-8070 from US and Canada. Outside the US +1 609-466-4347

[www.wellmanager.com](http://www.wellmanager.com)

“The water you need and  
The performance you want”

## **Pump Control Sequence of Operation**

Well pump run duration and wait time between run times are selected by means of ten binary switches, which permit run or delay times from 10 seconds to 2.8 hours in 10-second increments.

When power is applied to the Well Manager® control the well pump on cycle begins and the well pump starts.

If the pump starts water flowing through the pipe from the well to the atmospheric storage vessel, a flow detector enables the well pump to continue running.

If, for any reason, water does not activate the flow detector before the allotted time elapses or water stops flowing from the source during an on cycle, power to the well pump is interrupted. This provides well pump protection in the event that well yield falls below the control setting and the well is inadvertently pumped down.

The well pump, controlled by the timer, will come on every time an “on time” or collection cycle starts unless the atmospheric storage vessel is full. Once full, a tank full float deactivates the well pump relay but the timer keeps counting.

## **Tank Level Control and Overfill Shut-off**

If the tank full float fails to shut off incoming water, an overfill shut off device will interrupt 24V control power and turn off both the collection and delivery pumps. The system is designed this way so that occupants will know there is a problem.

If an over-fill occurs there will be no water pressure, the tank will be full of water and the LOW WATER and TANK FULL lights will be on.

To verify that an overfill event has occurred simply open the OVER FILL SHUT OFF DEVICE drain valve. If water flows from the valve this means that the tank has over filled and that the tank full float is not functioning as it should. Once water is drained from the over fill device, the pressure pump will start and the collection pump will once again be allowed to come on.

If an over-fill has occurred, turn off the well pump breaker to prevent another over fill and look for the problem or call for service. The plumbing will function until the content of the storage tank is exhausted.

The low water float is the safety mechanism that prevents the pressure pump from running the un-pressurized storage vessel dry. This prevents the PumpChamber or other pressure pump from losing its prime or damaging the pump.

## **Flow Detector**

The Well Manager has a flow detector built into the tank fill line. It's not a garden variety flow detector - it's one we came up with because those available were just not sensitive enough, would jamb when well grit got in them or couldn't detect water moving until the water actually arrived at the switch.

Our flow detector is a very sensitive pressure switch built into an air chamber on the line between the well and the Well Manager fill. (It is mounted on the WM Tank and piping when you get it). Between the Flow detector and the tank fill is a throttling valve, which allows the backpressure on the well line to be adjusted.

This permits detection of very small flows - down to 1 quart per minute if need be. This detector can recognize water moving in the well line BEFORE it arrives at the tank since water moving up the pipe will push air pressure ahead of it - so even if there is a small hole in the drop pipe in the well which allows water to drain out of the well line when the pump is not working, the flow detector knows that the pump is working and water is coming because it can sense the air pressure ahead of the flow.

A 30PSI gage is provided on the flow detector to aid in adjusting well line backpressure and to track well water level changes.

This collection system is in use on wells as poor as 0.1 gpm, providing a viable supply using wells previously thought unusable.