

MISSION Tank and Well Control Package

MISSION's Tank and Well Control Package maintains the amount of water in a storage tank by continuously monitoring the level and sending out commands to control pumps when required. Since there are no local computers, phone lines, or radio systems to maintain, it is inexpensive and easy to install.



The RTU at the water tank ① continuously transmits level information to a nearby cellular tower ②. This RTU may be connected to other equipment such as chlorine monitors or other alarm inputs, and can be solar powered. Status data packets are transmitted through a VPN connection to MISSION servers ③. Additional site telemetry such as signal strength, battery voltage, and temperature information is also transmitted hourly. The current level readings can be viewed, high and low alarm thresholds adjusted, and historical data downloaded in the same manner as other MISSION RTUs ⑤. This information can be simultaneously viewed on a web browser from home, a WAP PDA in the field, and in your control room using an OPC link.

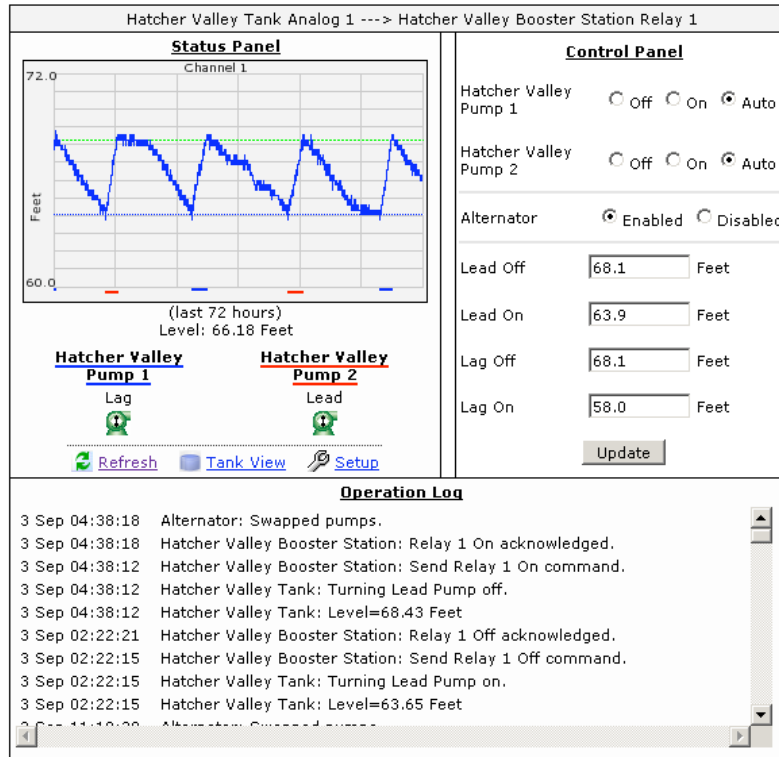
The Tank and Well Control Package allows the customer to adjust the various pump on/pump off trigger levels. When the tank level is outside of these boundaries a command will be sent to up to three other RTUs ⑦ to turn on and off relays, energizing pumps and refilling the tank.

On the website the customer can...

- View current and historic tank level
- View real-time well call and run status

With a supervisor's password the customer can...

- Enable and disable alternation
- Manually run or lock out individual wells
- Set well control points
- Set high and low alarm points



MISSION's alarm notification system, 4 is included with the package. It features built-in AC failure, low battery, high pump starts, and excess runtime alarms. If AC does fail, the backup battery (included) continues the RTU telemetry transmissions for over 30 hours.

With the MISSION Tank and Well package, customers have no radio networks, computers, or PLCs to maintain. MISSION manages the whole process for the low, flat annual fee. Up-front, and over ten years, it's less expensive and much less complicated than the traditional way of providing SCADA.

What You Will Need:

At The Tank

- One M800 or M1000, NEMA 4 typically (M802 or M1002R)
- One Annual Service for Realtime (M580)
- One Tank/Well Controller Software (M587)
- One 4-20ma Analog Level Sensor, Various PSI Ranges (M47X)
- One Level Sensor Surge Suppressor (M482)
- One Antenna Extension Kit, Various Lengths (M43X), Optional

At the Well(s)

- One M800 or M1000, NEMA 4 typically (M802 or M1002R)
- One Annual Service for Real-time (M580)
- One or Two Omron Interposing Relay(s) (M479)
- One Antenna Extension Kit, Various Lengths (M43X), Optional

See the specification sheets on the MISSION M800 and M1000 cellular RTUs.