

VIRTU-WELL™ WIRELESS REMOTE MONITORING WATER WELL & WATER TANK TELEMETRY



It's been over a week since you have been able to check all of your water wells and tanks. Your most distant well is 100 miles away. How do you know if your livestock are getting enough water?

There are gauges and monitors to measure water levels, pump status, and water flow. But, how do you know if you have enough water 100 miles away, when you are busy at another site? How long can you afford to wait? How long can your livestock go without water?

There is an answer – And it saves you money!

Virtu-Well™ allows you to wirelessly monitor pumps, tank levels, and water flow. Virtu-Well™ sends alarms via digital pager and email within five minutes of an event. Importantly, all systems are solar powered, for installation simplicity and superior reliability. However, they can be custom configured for AC power. Moreover, Virtu-Well™ requires no special software. Anyone with Internet access can monitor, update and control their Virtu-Well™ systems.



Virtu-Well Basic™ is a cost effective entry-level solution for sending a low water level alarm for critical water tanks. A rancher or farmer can monitor tank status from virtually anywhere in the world.

Virtu-Well Silver™ is a reliable and cost effective solution for monitoring critical water tank levels. A rancher or farmer can monitor tank status from virtually anywhere in the world. Alarms can be sent from up to two water level sensors. In addition, Virtu-Well Silver™ offers automated and remote¹ pump control.

Virtu-Well Gold™ is ideal for customers needing a high performance solution for sensing pump fault status, and measuring two tank levels. In addition, Virtu-Well Gold™ offers automated and remote¹ pump control, as well as the ability to remotely measure total gallons of water pumped each day.

Virtu-Well Blue™ is our top of the line product for customers requiring a robust, high-capacity, solution. Virtu-Well Blue™ allows customers to measure two levels in a primary tank, a single level in up to six secondary tanks, water flow, pump status, as well as generate a temperature alert alarm when ambient air or water temperatures plummet below a preset level. In addition, Virtu-Well Blue™ provides automated and full remote² pump control.

Virtual Technologies, Ltd.

3815 S. Union Road • Spokane, WA 99206 • Phone: (509) 244-3252 • Fax: (509) 921-0618

POWER PRODUCTS—WIRELESS SYSTEMS—PRODUCT DEVELOPMENT

www.VirtualTechnologiesLtd.com

VIRTU-WELL™ WIRELESS REMOTE MONITORING

WATER WELL & WATER TANK TELEMETRY

Benefits

- Save money, time, & labor
- Provides information on demand
- Increases productivity
- All units operate license free
- Max distance from cell tower: 30 miles³
- Designed for harsh environments
- Offers peace of mind



Quick Comparison Chart

	Virtu-Well™ Basic	Virtu-Well™ Silver	Virtu-Well™ Gold	Virtu-Well™ Blue
Measurement Method ⁴	stainless steel or plastic float	stainless steel or plastic float	stainless steel or plastic float	stainless steel or plastic float
Max. Alarm Points Main Tank	1	2	2	2
Max. Alarm Points Secondary Tanks	-	-	-	1 x 6 tanks
Pump Failure Alarm	no	no	optional	yes
Flow Meter – Total Gallons/Day	no	no	optional	optional
Temp. Alarm	no	no	no	optional
Pump Control	no	optional	optional	optional
Pump Control via Internet	no	limited	limited	yes
Battery	17AH	17AH	17AH	17AH
PV Required	20 watt min.	20 watt min.	20 watt min	40 watt min.
PV Volts Required	15 VDC	15 VDC	15-180 VDC ⁵	15-180 VDC ⁵
AC Powered	no	optional	optional	optional
Standard Antenna	unity gain	specify	specify	specify

Options

Custom Engineered Solutions Available

Recommended Accessories

- PV Panel & Mounting Hardware
- Pole Mount for Virtu-Well™ Box
- Sealed Lead-Acid Battery
- High-Gain Antenna
- Switch Plate & Manual Control
- Lightning Protection
- Sensor Mounting Clamps
- Additional Measurement Points

Electrical

- AC Power Module
- 24 VDC / 48 VDC Power Modules
- Extreme Environment Cable – resists alkalis, oils, abrasion, UV, and water
- Integrated Linear Current Boosting Pump Controller
- Copper Ground Wire & Rods

Antennas

- High-Wind and Ice Antennas
- Extreme Range Antennas
- 3" to 1" Pole Clamps

¹Requires pump controller with RS input. Float activates pump. User commands pump to constantly run or run only when controlled by float.

²Requires pump controller with RS input. Sensor activates pump. User commands pump to constantly run, never run, or run when controlled by sensor.

³Over flat terrain with high-gain antenna(s). ⁴One measurement point included with Silver, Gold, and Blue systems. ⁵Specify when ordering. Can be paralleled with solar powered pump systems.

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VIRTU-WELL™ LIQUID LEVEL SENSORS

WATER WELL & WATER TANK TELEMETRY



Stillman Well Level Measurement (p/n 30-HD-SW)

Heavy Duty Livestock & Freeze Resistant

For measuring single water levels in livestock drinking tanks.

- Tough Galvanized Steel Case
- Highly Resistant to Livestock
- Crush Resistant Stainless Steel Internal Float
- Crush Resistant Internal Float Withstands 100 psi
- Not susceptible to UV radiation
- For tanks up to 30 inches deep
- Custom lengths available

Standard Level Measurement (p/n 30-SS-SW)

Freeze Resistant

For measuring single water levels in livestock drinking tanks.

- Crush Resistant Stainless Steel Float
 - Withstands 100 psi
- Not susceptible to UV radiation
- For tanks up to 30 inches deep
 - Custom lengths available



Economy Level Measurement (p/n 30-PVC-PSW)

UV Resistant

For measuring single water levels in livestock drinking tanks.

- Made of water resistant Schedule 40 electrical PVC
- Resistant to UV radiation
- For tanks up to 30 inches deep
- Custom lengths available
- Not for use in freezing environments

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VIRTU-WELL™ ACCESSORIES & SENSORS

WATER WELL & WATER TANK TELEMETRY



Stillman Well Clamp Set (p/n SWC)

Allows 2x6 pressure treated lumber to be used as a connecting point on cattle drinker tanks. This facilitates easy attachment of Stillman Well Level Sensors.

- Saves installation time
- For use on heavy duty metal drinker tanks
- 2 clamps per set

Totalizing Flow Meters Models from 0.25 - 130 GPM (Model Shown: p/n TFM-433-1)

For measuring total gallons of water pumped. Daily count can be transmitted to V-Command website each day.

- Accurately measure gallons of water pumped
- Electronic count can be reported to V-Command website daily
- Totalizing counter design lets you measure (on site) gallons pumped since installation
- Sealed register prevents condensation or fogging of the reading window
- Reliable: Only one internal moving part
- Thread Size (NPT): 1", 1.25", 2", 6.5" depending on model



Other Options

- PV Panel & Mounting Hardware
- Pole Mount for Virtu-Well™ Box
- Sealed Lead-Acid Battery
- High-Gain Antennas
- Ice Resistant Antennas
- 3" to 1" Pole Clamps
- Switch Plate & Manual Control
- Lightning Protection
- Copper Ground Wire & Rods
- AC Power Module
- 24 VDC / 48 VDC Power Modules
- Extreme Environment Cable – resists alkalis, oils, abrasion, UV, and water
- Integrated Linear Current Boosting Pump Controller

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