



AYYEKA RESERVOIR AND PUMP MONITORING

Low-Cost Remote Reservoir & Pump Station Monitoring Made Easy

CHALLENGE

Both Large and Small Municipalities need to monitor Reservoir levels and pump run times to ensure supply levels are maintained within each Utilities desired specifications. Utilities are constantly challenged with water main breaks and pump maintenance performance. Immediate notification of a problem is critical in addition to knowing system performance.

1. Automatic Supply Pump Failure and Power Outage Alarms and Alerts
2. Immediate alert of quick reservoir discharge (indicating main break)
3. Pump performance
4. System Pressure at the reservoir
5. Historical Water Level Graphical Trending

To manage an efficient, accurate and reliable distribution system, historical trend and alarm Reservoir data are required. Access to this type of data is crucial for increasing distribution efficiency thus driving overall reliability of the distribution system.

SOLUTION

Ayyeka Low-Cost Wireless Reservoir and Tank Monitoring Solution (TMS)

It's all about efficiency, performance of the system & return on investment! The Ayyeka tank monitoring solution automatically provides the user historical trend and alarm data of each Reservoir and or tank. Automatic, remote updates provide the user ease of mind and informational based decision data.



Anytime alarm points are triggered, alerts are sent immediately without delay; this increases water distribution reliability. Reservoir Tank historical trend and alarm data are automatically graphed and accessed from any web browser, securely, utilizing cyber-secure password protected technology DNP3. Reservoir data, pressure and AC power out data and alarms can be shared with field teams and SCADA or HMI systems seamlessly. In addition, the Ayyeka cellular Reservoir solution provides multiple different critical alarm levels and alert tank levels. Alarms can be received by an unlimited amount of field and/or office support personnel, via email and/or text messages and even digital voice on their cell phones and PC's. Customers today are demanding highly reliable and accurate historical, trend and alarm data which provide immediate updates of their distribution system to increase productivity for both the supplier and the customer. By eliminating unneeded labor costs i.e. confined entry space, and reservoir site visits, operational costs are driven down and safety levels are increased. The Ayyeka IIoT cellular reservoir monitoring solution increases distribution reliability, saves valuable man hours, eliminates IT costs and increases the efficiency of your logistics, driving overall operational costs down!

APPLICATIONS

- ▶ Reservoir Pond or Tank Monitoring Level
- ▶ Distribution Pressure
- ▶ PRV Vault Monitoring
- ▶ Pump Monitoring
- ▶ Remote Rain Gauge Data
- ▶ Immediate Alerts and Alarm to field personnel
- ▶ Historical Performance Data Graphed and Time Stamped
- ▶ Immediate alert of "Fast Reservoir Discharge" indicating pipe break

BENEFITS

- ▶ DNP3 Security, meeting stringent Utility Anti-Hacking requirements
- ▶ No Software to Purchase or Maintain
- ▶ Remote Monitor Reservoir Levels and Supply From Pumps
- ▶ Low Cost, Battery Operated (eliminate AC power drop expense)
- ▶ Ayyeka Famous Fast & Easy Deployment (delivered "box ready" for installation)
- ▶ Rugged, Field-Ready Design IP68
- ▶ Small and Low Profile enclosure
- ▶ No AC Power Drops Required
- ▶ No Proprietary Software Needed
- ▶ Immediate alarms via Text and / or Email
- ▶ Historical planning data both timestamp and graphical
- ▶ Automatic GPS mapping
- ▶ API's included to incorporate data into current SCADA or HMI systems



**CLASS 1
DIV 1
CERTIFIED**

Ayyeka provides cyber-secure, plug-and-play, remote monitoring solutions designed for various markets. Ayyeka has an installed base in challenging locations and earned a reputation for excellent customer service. Bringing together a state-of-the-art hardware and cloud-based software package, Ayyeka's solutions are leading the infrastructure monitoring sector into the future.