



AYYEKA NATURAL GAS DISTRIBUTION MONITORING

CHALLENGE

Supervisory Control and Data Acquisition (SCADA) systems provide data and control at critical monitoring points and are an essential part of any distribution system.

However, they are not a cost-effective means of monitoring an entire system. The high cost of deploying SCADA solutions prohibits the utility from deploying them at every monitoring site where they could be usefully employed, thereby resulting in blind spots in which planning data and immediate alarms needed by gas engineers to maintain system efficiency are not available.

Cost-effective management and planning of a gas distribution system requires real-time data from alarms and alerts and provides historical graphical and time-stamped data for reporting and hydraulic studies.

Once immediate actionable data of high and low pressure levels become available, the gas engineer and field teams can identify critical problems in the distribution system and take immediate steps to correct them.

With Ayyeka, sending personnel into the field to collect days or even week old data - a costly and inefficient endeavor - can now be a thing of the past.



APPLICATIONS

- ▶ Regulator Stations
- ▶ High and Low Pressures
- ▶ Endpoint Monitoring
- ▶ Commercial Meter Sets
- ▶ Paper Chart Replacement
- ▶ Hydraulic System Data Collection
- ▶ Natural Gas Pressure, Flow, and Temperatures
- ▶ Reheater and Compressor Performance
- ▶ Weather Stations

BENEFITS

- ▶ No Software to Purchase
- ▶ Low Cost
- ▶ Fast Deployment
- ▶ Rugged, Field-Ready Design
- ▶ No AC Power Drops Required
- ▶ No Proprietary Software Needed

SOLUTION

Ayyeka Smart RTU

Ayyeka solves this problem by allowing utilities to view their entire distribution system with low-cost, easy to deploy wireless smart remote terminal units (RTUs).

Unlike collecting days' old historical and alarm data on paper, Ayyeka immediately alerts you and your team about alarm pressure levels.

Ayyeka's proactive remote system monitoring increases distribution system efficiency, reduces costly truck rolls, and provides easy-to-read analytical data that assists you and your team.

Ayyeka is designed for both the small and large utilities with field replaceable batteries. The Ayyeka RTU is designed for both the gas engineer and field teams and has been built tough to be able to withstand even the harshest of operating environments.

Working in adjunct with SCADA, the Ayyeka Smart RTU is built scalable with field options for AC power and ease of SCADA integration if desired. In addition, Ayyeka Smart RTU utilizes onboard GPS to automatically map each remote unit allowing ease of troubleshooting making physical location change a breeze.

Features

- ▶ Reliable low-cost cellular with dynamic IP security "standard" inside, meeting utility requirements.
- ▶ Eliminate costly AC power drops with field replaceable battery.
- ▶ Easy install design.
- ▶ Delivered ready for installation with sensors.
- ▶ Historical data for hydraulic studies and reports.
- ▶ No electrician required to run site AC power, resulting in substantial cost savings.
- ▶ No phone lines or Ethernet cable to install.
- ▶ Automatic GPS unit locator, eliminating user programming and saving time.



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.