

WELLSITE/GATHERING SYSTEM APPLICATIONS

INTEGRATING CP & TANK LEVEL MONITORING

PROBLEM

- Unmonitored cathodic protection systems
- Potential for well casing corrosion
- Reliance on 3rd party pumpers for tank level monitoring
- Potential for overflow or unnecessary site visits

SOLUTION

The Elecsys SentraLink CP provides 2 analog voltage measurement channels for CP monitoring plus 2 transducer channels ideal for monitoring tank levels at isolated well sites. Any CP failure triggers an alarm notification to well operators and the party responsible for site maintenance. In addition, the system monitors tank levels for advance notification of high levels to prevent overflows and to optimize pumper routes and scheduling.

ENSURING OPERATION OF CHEMICAL INJECTION SKIDS

PROBLEM

- Low or empty material tanks
- Power failures, depleted batteries
- Pump failures
- Unplanned consumption of expensive chemicals

SOLUTION

The Elecsys SentraLink CP monitors tank level, input power (solar panel), battery voltage, and meter pulse counts. Monitoring tank levels enables operators to efficiently schedule refilling, track usage, and assures proper billing when refilled. Analog measurement channels can monitor both solar panel output and storage battery levels to prevent outages. Meter pulses are accumulated to monitor proper operation.

MONITORING INPUT POWER, CP & PRESSURE AT STORAGE WELLS

PROBLEM

- Tracking pressure changes for compliance reporting
- Timely detection of alarm conditions
- Monitoring voltage potentials on pipelines
- Assuring adequate power

SOLUTION

The Elecsys SentraLink CP enables pressure monitoring in underground gas storage wells (deep rock formations, depleted wells), for regulatory compliance and provides rapid notification of out of range conditions. Pipe to soil potentials in the storage field are also monitored to assure adequate CP across the pipeline network. The unit also monitors input power (solar, storage battery, ...) to provide notification for maintenance and system integrity.

DETECTION OF HAZARDOUS GASES AT FIELD SITES

PROBLEM

- H₂S accumulation at well sites
- Chlorine gas accumulation from ground beds
- CO₂, carbon monoxide, etc.
- Potential health and safety issues

SOLUTION

The Elecsys SentraLink CP effectively monitors system for continuous detection of hazardous gases at remote field locations. Sensors designed to detect H₂S or chlorine gas, as well as other potentially harmful gases, accumulating in ambient environments can be scanned by the SentraLink CP at 1 minute intervals. In addition, systems designed to neutralize hazardous gases such as chemical injection systems can be monitored for proper operation.



Programmable over the web



Surge resistant circuitry



Rechargeable NiCd backup battery for notification of power failure



2 Analog voltage inputs, 2 sensor/transducer inputs, and 1 digital input

SENTRALINK CP SOLUTIONS FOR WELLSITE & GATHERING SYSTEMS

