

Telecontrol for efficient and remote supervision of gas or oil pipelines

Using wireless remote communication for data transmission alongside pipelines means independence from cabling and from the disadvantages of maintaining them. Even in places where cabling is not an option, for example, due to the environment, reliable wireless monitoring can be implemented to allow fast reaction times to changing demands.

Advantages

- Remote access to distant facilities and locations to enable control and monitoring from a central location and reduce the need to dispatch technical experts on site, thereby permitting OPEX savings
- Usage of all WAN types, also in redundant configurations: dedicated lines, radio (e.g. WiMAX), dial-up networks, Internet DSL, GPRS
- Storage of data messages, including time stamps
- Maximum flexibility via scalable RTU system with further field instrumentation, e.g. pressure, flow, cathodic protection, etc.
- Reduction in OPEX, because there is no cable maintenance
- Provides event-driven transmission of process data between individual PLCs and the control center
- Increased efficiency: data buffering at all communication levels

Products used for this application

- **Industrial remote communication – Telecontrol**
Our Telecontrol systems are based on SIMATIC and provide the corresponding hardware and software to supplement this system.
- **Industrial security – SCALANCE S**
SCALANCE S security modules are specifically used in automation, yet connect seamlessly with security structures of the office and IT world.
- **Process Control System – PCS7**
Flexible, scalable, powerful: The innovative distributed control system SIMATIC PCS 7 enables you to quickly respond to constantly changing market requirements.
- **Process instrumentation**
Our comprehensive process instrumentation portfolio offers best-in-class transmitters for the widest range of applications.
- **Automation – PLCs**
The SIMATIC range of controllers comprises basic, advanced, distributed and software controllers offering impressive scalability and integration of their functions.

