Pump Management

Remote monitoring of intermediate pumping stations

W westermo ®

Robust Industrial Data Communications
– Made Easy

Water pump management system

The sewage system for Goczałkowice-Zdrój community in Poland were built back in 1993. It was the biggest local water treatment project ever with almost 70 km pipelines and intermediate pumping stations to transport the water to the treatment facilities.

In recent years, requirements for a more flexible and secure system were needed and a remote controlling and monitoring system was designed. Polish company Energotest took on the task to design the application and decided to go with the GDW-11 485 GPRS modem from Westermo to provide for the data communication.

In the control center the CitectSCADA system monitor and control the pumping process. Each pumping station is equipped with a GDW-11 485 modem connected to the corresponding PLC via RS-485 bus. The GDW automatically logs on over the GPRS network and provide a stabile TCP connection between the pumping station and the iPC server. The data is transferred from the PLC to the SCADA application using the Modbus protocol.
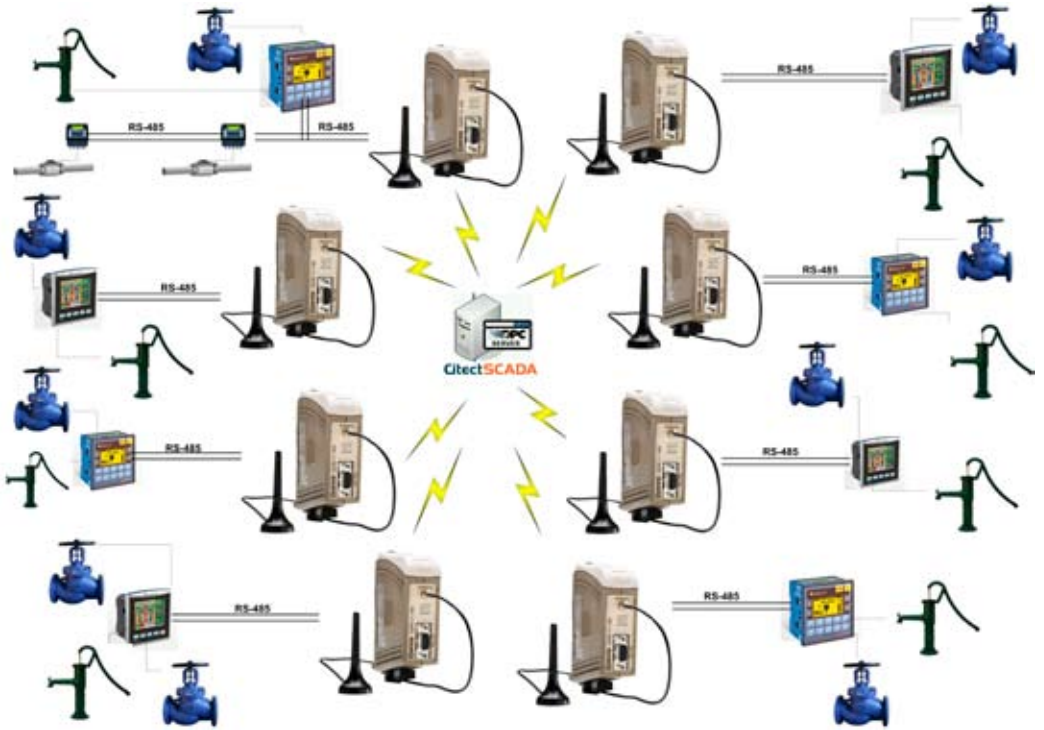
Some of the pumping stations are also equipped with reading-instrument for water quantity. Water flow data can be monitored using the same GDW-11.

Westermo supplier:

teknіѕка®

System manufacturer:

ENERGOTEST

All remotely located pumps throughout the 70 km waterpipe system can be monitored in the central SCADA system.

A product range to meet every demand

Westermo provides a full range of data communication solutions for such demanding applications as railways, aeronautics, defence, water treatment, substation automation, roads and tunnels. The staff at Westermo can provide the highest levels of service and technical support to help our customers to choose, configure and install the best solution for each specific application requirement. Our knowledge goes far beyond our own product range; we have a unique competence regarding your environment whether it is on a train, in an aeroplane, on the seabed or in a substation. To ensure a close relationship with the customer, Westermo has a local presence in more than 35 countries. The Westermo product line includes more than one thousand different types and versions of our modems, switches, routers, time servers and converters.

Westermo products used in this application

Product/Art. no	Description	Connectivity
GDW-11 485 3615-0030	GSM/GPRS modem for 800 and 1800 MHz GSM networks. Dual serial support.	Serial (RS-232 D-sub) Serial (RS-422/485) SIM