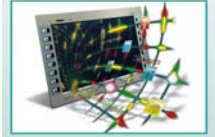


Seville Waterworks

Water supply systems usually consist of a number of distributed plants for water supply and treatment. Due to increasing requirements for water in the food industry and to further increase availability, these systems were in the past continuously extended and improved. These extensions often resulted in very inhomogeneous systems, where various types of control technology were used.

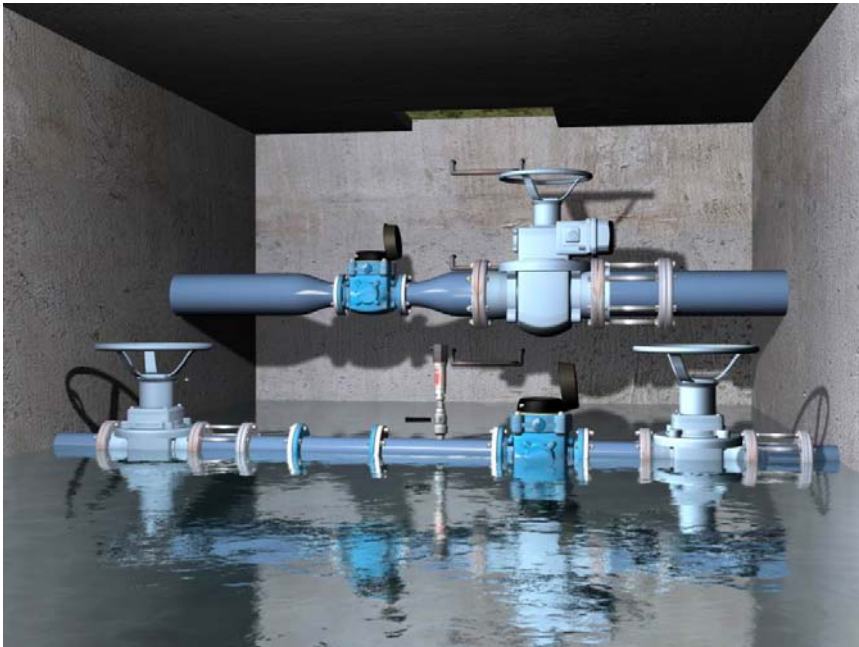


AUTOMATIONWORX

Transparent and Seamless

Application

These developments resulted in a single water supply system, which has several lower-level control systems that cannot communicate with one another. The storage of information such as capacities, flow rates or pump runtimes is thus dispersed.



Solution

In order to solve this problem and to modernize the pipe systems with modern control systems integrated in the old communication networks, Isotrol S.A., an engineering company based in Seville and specialist in control and information systems in water management and industrial applications, chose Phoenix Contact technology.

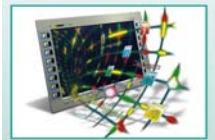
These systems, based on ILC 200 UNI control devices installed in remote locations, are equipped with transparent serial interface cards. The high level of flexibility of the devices and the advantages of highly standardized programming according to standard IEC 61131-3 enable user-specific configuration for communication with virtually all serial protocols available on the market.

Each distributed unit has analog and digital I/O cards that support modular extension, which are used to locally monitor all operating parameters such as pressure, flow rate, capacity or chlorine content.

In addition to the actual open and closed-loop control tasks, where the ILC 200 UNI acquires and processes the values from the measuring instruments, this information is also prepared for further processing. For example, measured values are standardized or count values are mapped from pulses. This information can then be transferred to the control center via the various communication channels.

The communication channel used is a radio channel, whose communication method enables the required data transmission speed to be reached while operating costs can be reduced.

In this way, the technology from Phoenix Contact, which can be configured according to user requirements, enables existing control networks to be extended without the continued use of previously used controllers or other older elements and equipment for a parallel communication network. Control and remote control tasks can be implemented cost-effectively with one device.



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