

Release of Supervisory Control Systems for Waterworks “AQUAMATE-8000” Series –Expected to Help Customers Spread Facility Replacement Costs over Multiple Years and Deal with an Engineer Shortage

In October 2019, Nissin Electric Co., Ltd. released supervisory control systems for waterworks “AQUAMATE-8000 series” to accommodate the need for water supply and sewerage facility replacement, which is expected to increase in the future. This series has been developed by upgrading the supervisory control functions of conventional AQUAMATE series products and adding maintenance and management assistance functions.

In Japan, water supply and sewerage facilities developed during the country’s high economic growth period are coming close to the time for undergoing large-scale maintenance or replacement due to aging. Accordingly, an increasing number of electrical facilities need to be replaced, and water and sewerage operators are required to spread their replacement costs over a period of years. In addition, they are also in need of facilities that can be maintained more efficiently with less manpower, to deal with an engineer shortage due to the aging of their personnel.

AQUAMATE-8000 series products are provided with the following functions to meet customer needs.

[System features]

1. High compatibility with conventional systems contributes to spreading replacement costs over multiple years

Data compatibility between conventional and new systems enables seamless system connection or replacement. Namely, conventional systems can be partially replaced, which allows users to proceed with system renewal gradually at low cost and consequently to spread their replacement costs over a period of years.

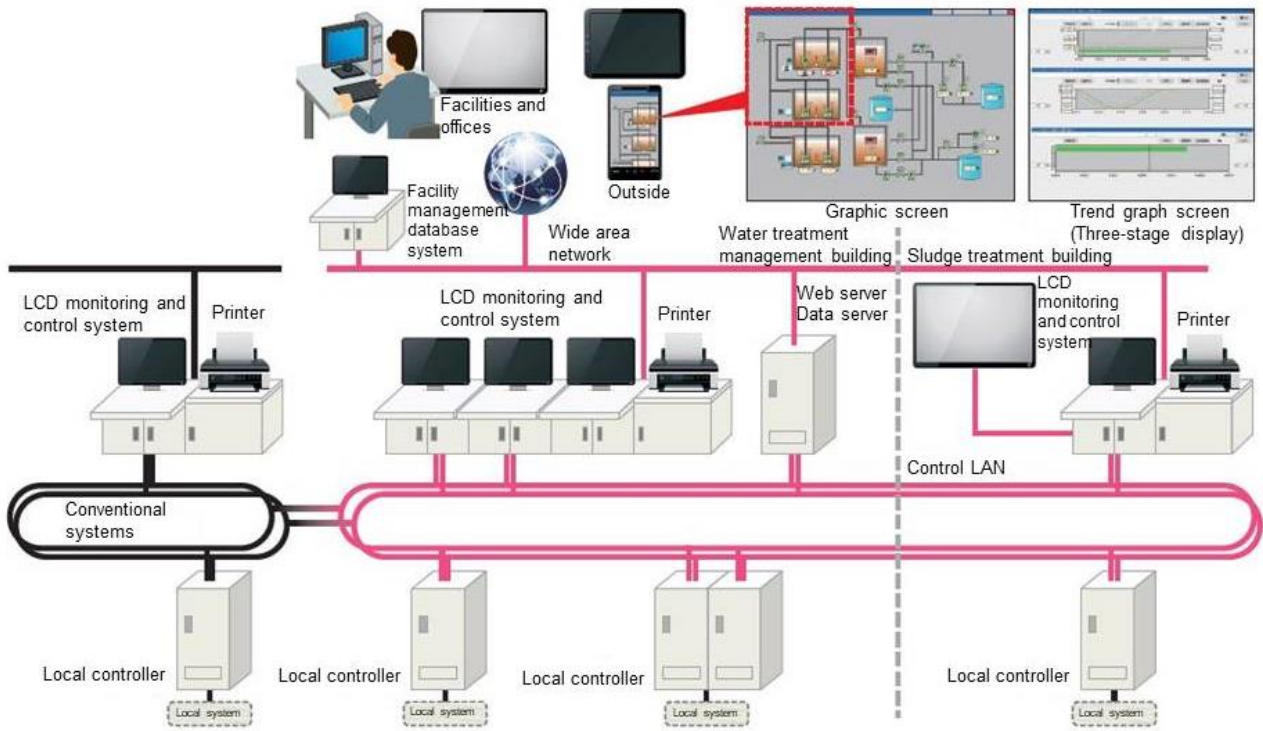
2. Advanced remote monitoring function promotes manpower saving

The AQUAMATE-8000 series products’ ICT-based remote monitoring function makes it possible to check the system’s operational state remotely, such as from other processing facilities and offices. This feature helps promote the reduction or elimination of manpower required for facility maintenance and management. Furthermore, the monitoring screen can be displayed on smartphones and tablet PCs with the same layout as that of the central supervisory control system, therefore users can operate the monitoring system through familiar screens wherever they are.

3. Scalable maintenance and management assistance function enables efficient operation management

AQUAMATE-8000 series products can interface with other systems, such as the energy management system, which is effective in improving energy consumption efficiency, and the facility management database system, which is effective in improving the efficiency of facility maintenance and management. By sharing data with other systems, the integrated information, including information required to minimize energy costs as well as the analysis and evaluation of facility integrity, is visualized to provide advanced assistance and thereby improve the efficiency of operation management.

We will continue to improve the supervisory control functions of our products in accordance with market and customer needs and to support long-lasting facility operation through gradual facility replacement while utilizing conventional systems. By taking advantage of AQUAMATE-8000 series products, we aim to acquire replacement orders worth ¥3 billion over the coming three years.



System components