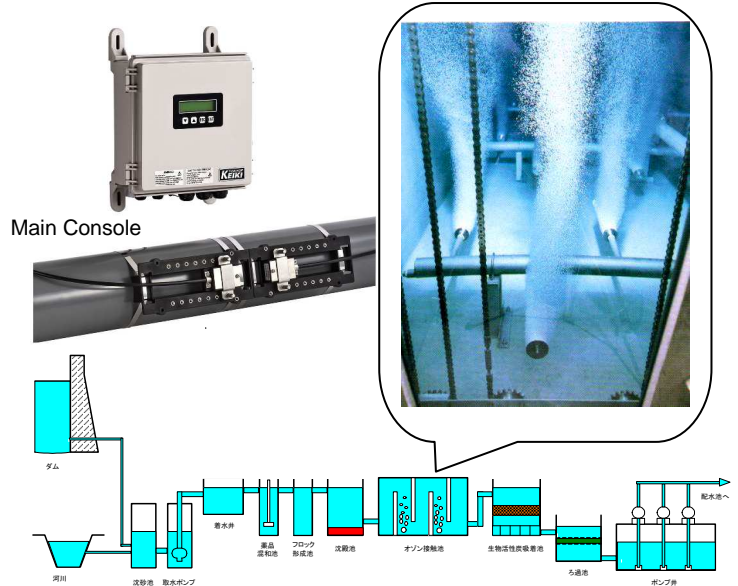


Ultrasonic Flowmeter Application Report 41

- Advanced Ozonation process -



Main Console



The UFL/UFW series stationary, transducers of clamp-on ultrasonic flowmeter placed on the outside of pipe provides stable instantaneous flow rate measurement.

At this particular site, the UFL/UFW series has been installed advanced ozonation process to monitor how much water volume processed.

Recently the most of metropolitan water purification has included advanced treatment process due to the water pollution of raw water.

Especially the main plant in the metropolitan area such as Tokyo or Osaka installed ozonation process (using the ozone with deodorizing effect) in response to the growing quality requirements to the drinking water.

The atmosphere has a corrosive in this advanced processing line, hence the measurement by clamp-on method is preferred, because of non-contact and non-stop the process in the same way as conventional.

The 1st ultrasonic flowmeter among the world has been released since 1963, and then delivered variety of applications. Clamp-on type ultrasonic flowmeter has been utilized for major advanced treatment line in Japan now a days.

Each UFL and UFW has unique features. UFL can cover multi-path measurement up to 4path for stable measurement even shortage of straight pipe length. UFW has capability to transmit input analog data (exp. Pressure or temperature) with flow data through MODBUS (RS-485) communication.

Both series can cover wide measuring range +/- 30m/s including 0m/s. It achieved 1:400 turn down.

Transducers are attached by using special adhesive onto the pipe, and this installation way realized long field life of the products.

For commissioning, the Windows-based graphical and user-friendly PC interface is easy to configure and set up.

[Pipe Specification]

- Pipe DN : 600mm or so
- Pipe material : Carbon Steel
- Lining : Mortar

[Installation Data]

- Main Unit : Stationary Ultrasonic Flowmeter UFL/UFW
- Transducer : Standard
- Installation : Z method / 1 path

For more detailed information, please contact your local representative.

Representative in your Area