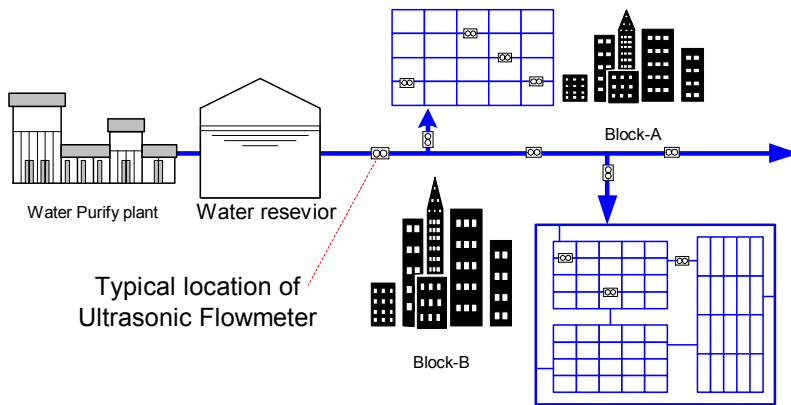


Ultrasonic Flowmeter Application Report 32

- Water distribution through Grid Network -



The UFL series stationary, clamp-on ultrasonic flowmeter with multi-path measurement capability incorporating up to 4 pairs of transducers placed on the outside of pipes provides stable instantaneous flow rate measurements.

At this particular site, the UFL series stationary flowmeter measures the flow rate through 700mm diameter pipes, non-intrusively, from the outside with no interference of flow.

Recently most of metropolitan prefers to use Grid-water network. It realizes continuous and stable water supply with proper pressure in ordinary time.

Grid water distribution brings benefit in emergency time by minimumizing area of disrupted water supply. Besides above, it can prevent complex pipe line and achieve efficient replacement of old pipe.

Through alignment of grid water network, clamp-on ultrasonic flowmeter has advantage that it can be installed without stop the water flow which may cause of rusty water.

UFL series realizes wide bi-directional measurement range from -30m/s up to $+30\text{m/s}$ including 0m/s with 1mm/s resolution. Because UFL can measure 0-flow, UFL is very suitable flowmeter as this application required.

Multi-path measurement is a feature of our UFL series stationary clamp-on ultrasonic flowmeter. By employing the UFL series stationary clamp-on ultrasonic flowmeter in combination with the appropriate sensor from the variety available and/or with the system's multi-path measurement capability you may be able to obtain high stable flow

measurements of pipes from 25mm up to 6000mm in nominal diameter under less than ideal conditions.

In addition, the all-in-one UFL main unit boasts 2 independent analog outputs, 4 varieties of contact outputs for totalizing or warnings, and 2 digital communication ports (RS-232C). The Windows-based graphical and user-friendly PC interface is easy to configure and set up.

[Pipe Specification]

Pipe DN : more than 700mm
 Pipe material : Carbon Steel
 Lining : Epoxy

[Installation Data]

Main Unit : Stationary Ultrasonic Flowmeter UFL-30
 Transducer : SE044040NC
 Installation : Z method / 1 path

For more detailed information, please contact your local representative.

Representative in your Area