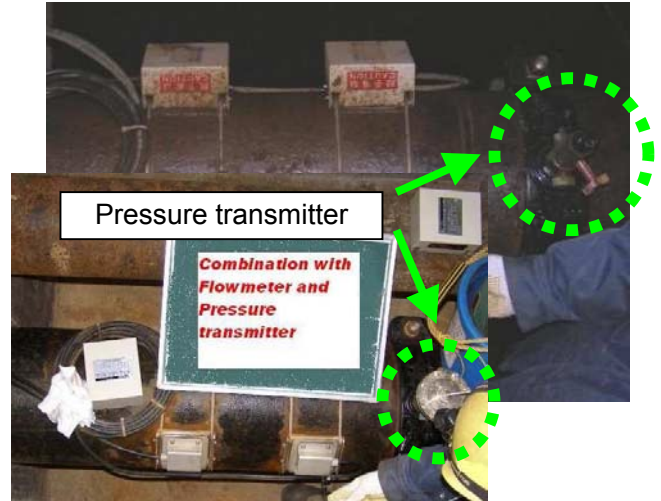
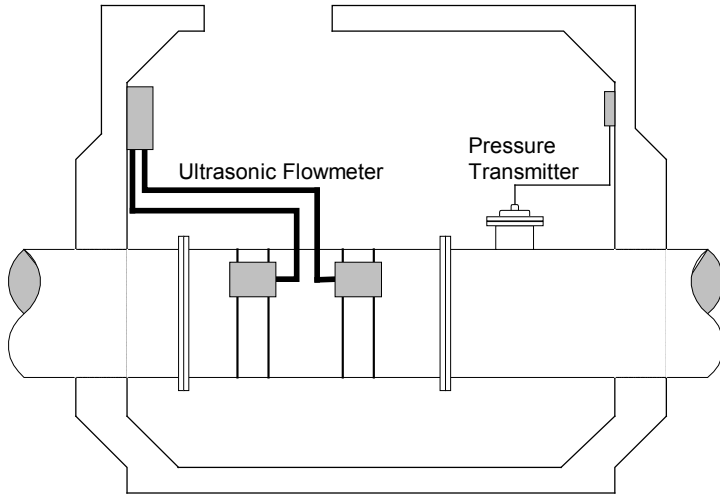


Ultrasonic Flowmeter Application Report 29

- Water distribution Network with Pressure transmitter -



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 with multiple pairs of sensors measures the flow rate through 300-500mm diameter pipes, non-intrusively, from the outside with no interference of flow.

To deliver water from water purify plant to each residents stably, combination of flowmeter and pressure transmitter are used especially for metropolitan water distribution gridiron network. Such distribution networks are achieved by control valve and pump with monitoring both signal.

Not only monitoring pressure to control it properly even at high-land location for tapping, but also monitoring flow volume and its direction, effective water distribution network can be achieved.

UFL series realizes wide 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.

The sensors are located upstream, near to the pressure transmitter and are clamped and fixed onto the pipe by wires.

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 300mm
 Pipe material : Carbon Steel
 Lining : Epoxy

[Installation Data]

Main Unit : Stationary Ultrasonic Flowmeter UFL-20/30
 Transducer : SE044040NC
 Installation : V method / 1 path

For more detailed information, please contact your local representative.

Representative in your Area