

Ultrasonic Flowmeter Application Report 10

- Flow Measurement in Restricted Spaces -



The UFL-20 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-20 series stationary flowmeter with multiple pairs of sensors measures the flow rate through 300mm or 500mm diameter pipes, non-intrusively, from the outside with no interference of flow.

The sensors are installed in a very confined space and are clamped and fixed onto the pipe by wires.

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

In addition, the all-in-one UFL-20 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 : 300mm / 500mm
Pipe material : Steel / Ductile casting iron
Lining : None

[Installation Data]

Main Unit : Stationary Ultrasonic Flowmeter UFL-20
Transducer : SE042140NC
Installation : Z method / 1path or 2path



In applications such as this underground pit where space restrictions preclude the use of standard transducers, special narrow space transducers are available for use in multi-path configurations to provide stable measurement.

Multi-path measurement is a feature of our UFL-20 series stationary clamp-on ultrasonic flowmeter. By employing the UFL-20 series stationary clamp-on ultrasonic flowmeter in

For more detailed information, please contact your local representative.

Representative in your Area