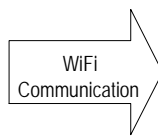


Ultrasonic Flowmeter Application Report 38

- WiFi communication network for Data Transfer -



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.

UFL series realizes wide measurement range from -30m/s up to +30m/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.

By using 1 of digital output, wireless communication can be achieved. At this particular application, "Instantaneous flow-rate" will transmit via WiFi transmitting module to receiving module, then you can see real-time indication on the display remotely over 1000m. This wireless monitoring can save cost for wiring or electrical work. 1 of 2 digital ports

can output MODBUS protocol also.

Digital communication contains "Instantaneous flow-rate", "Flow velocity", "Forward totalizing value", "Backward totalizing value", "Error code" and so on. This feature will realize redundant measuring system combined with 2 analog output and 4 relay output.

[Pipe Specification]

Pipe DN : 7150 mm
 Pipe material : Carbon Steel
 Lining : Epoxy

[Installation Data]

Main Unit : Stationary Ultrasonic Flowmeter UFL-30
 Transducer : SE044040NC
 Installation : Z method / 4 path

For more detailed information, please contact your local representative.

Representative in your Area