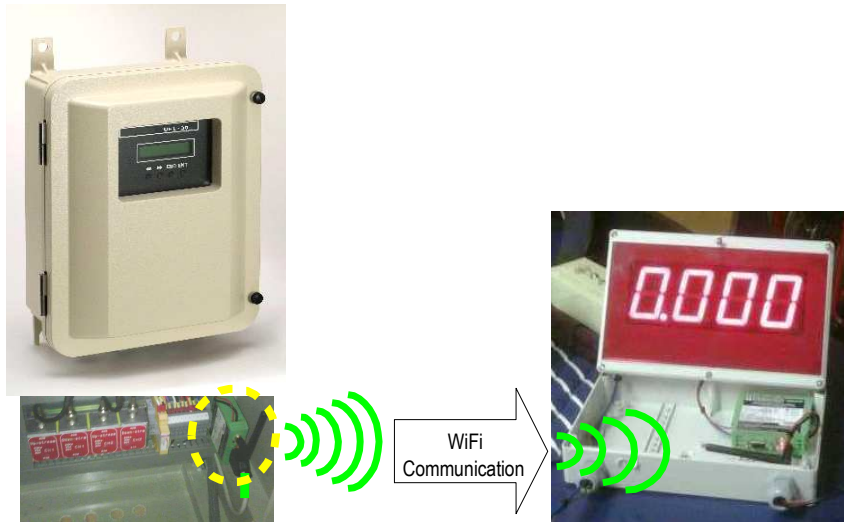


# Ultrasonic Flowmeter Application Report 30

## - 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  $-30\text{m/s}$  up to  $+30\text{m/s}$  including  $0\text{m/s}$  with  $1\text{mm/s}$  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  $25\text{mm}$  up to  $6000\text{mm}$  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. 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 : N/A  
 Pipe material : N/A  
 Lining : N/A

#### [ Installation Data ]

Main Unit : Stationary Ultrasonic Flowmeter UFL-20/30  
 Transducer : N/A  
 Installation : N/A

For more detailed information, please contact your local representative.

Representative in your Area