

Ultrasonic Flowmeter Application Report 37

- Distribution Management of Tap Water -



The “Intelligent digital UFW-100” stationary, clamp-on ultrasonic flowmeter with transducers placed on the outside of pipes provides stable instantaneous flow rate measurements.

At this particular site, the UFW-100 stationary flowmeter measures the flow rate of distributed city water to each blocks through middle-size pipeline (up to 600mm), non-intrusively, from the outside with no interference of flow. The sensors are clamped with integrated mounting fixture by stainless steel band.

At every water distribution block, water suppliers need to monitor and manage flow rate and water pressure in order to prevent water leakage due to overpressure of water supply. In a conventional data acquiring system, every sensing instrument including flowmeters and pressure gauges will output independently to central system by current signal through telephone line.

By employing the UFW-100 stationary clamp-on ultrasonic flowmeter in combination with “Auto-Logging function” (Standard), “Analog input” (Option) and “RS-485 MODBUS communication” (Option), flow data and pressure data will be stored in ring buffer memory inside of UFW-100 converter. And central monitoring system can acquire stored data (measurement log of flow & pressure, and input parameters) by MODBUS command remotely.

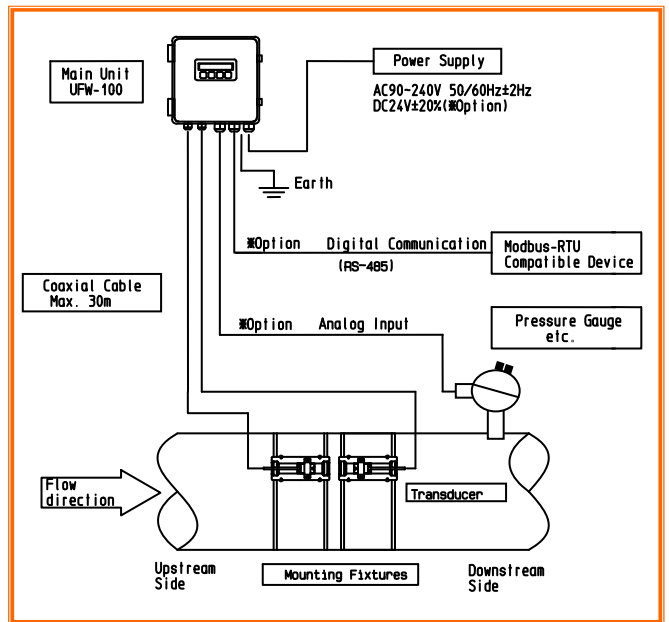
Such remote system by digital communication realizes laborsaving leak detection for reduction of Non-Revenue Water all over the world.

[Pipe Specification]

- Pipe DN : 25 ~ 600mm
- Pipe material : Carbon Steel, Ductile
- Lining : Epoxy, Mortar

[Installation Data]

- Main Unit : Stationary Ultrasonic Flowmeter UFW-100
- Transducer : SE104720T
- Installation : V method / 1 path



For more detailed information, please contact your local representative.

Representative in your Area