

Ultrasonic Flowmeter Application Report 61

- Discharge water meter -



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 outlet flow rate of discharging process for hydro-dam through 600mm diameter pipe, non-intrusively, from the outside with no interference of flow. Typically, the discharge pipe line is exposed very limited area as shown above. But UFW can adapt flexibly even such area, hence easy to install and able to measure flow rate stably. The sensors are clamped with stainless steel band.

Even turbulent condition of discharging outlet water, our intelligent digital UFW-100 can have smooth echo wave without any noise by original digital-echo handling algorithm as below.

“Echo-wave check & monitoring (as above indicated)”, “Auto-Logging function”, “Analog input” and / or “Integrated mounting fixture”. Through such easy setup function, you may be able to obtain high accuracy flow measurements of pipes from 25mm up to 600mm in nominal diameter with $\pm 30\text{m/s}$ velocity range coverage.

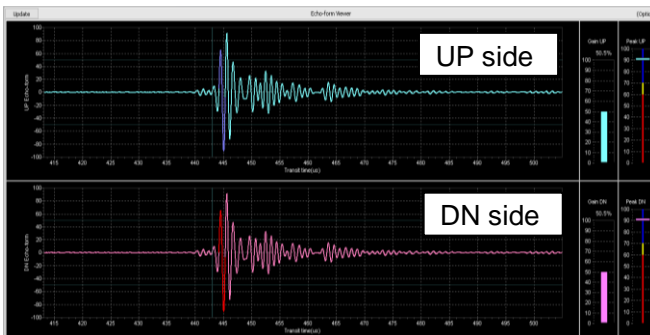
In addition, the all-in-one UFW-100 main unit boasts 1 Analog output, 1 Contact output for totalizing or warning, 1 Digital communication port RS-232C as standard, another port for RS-485 (Option) and Analog input (Option).

[Pipe Specification]

Pipe DN : DN600
 Pipe material : Carbon Steel
 Lining : Epoxy

[Installation Data]

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



By employing the UFW-100 stationary clamp-on ultrasonic flowmeter in combination with the easy set-up function on the Windows-based graphical & user-friendly PC interface is easy to configure through such as “Wizard-parameter input”,

For more detailed information, please contact your local representative.

Representative in your Area