

# Ultrasonic Flowmeter Application Report 50

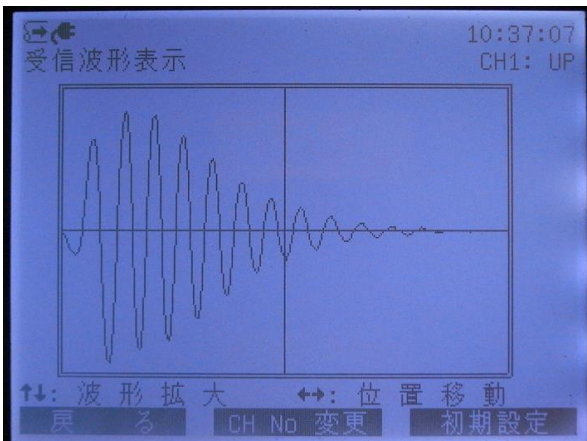
## - 25% Titanium contained water process -



The UFP-20 portable, clamp-on ultrasonic flowmeter provides instantaneous flow rate measurements with up to 2 pairs of transducers placed on the outside of pipes.

Setup and installation are quick and easy by magnet type mounting fixture such as shown in the photos above. At this particular site, the UFP-20 portable flowmeter with 1 pair of sensors measured the flow rate through DN80mm & DN100mm pipe, non-intrusively, from the outside with no interference of flow. In this application, the client needed to check the real flow of outlet water. By this clamp-on portable flowmeter, the user could measure the how water transmission volume change without cutting the pipe even through titanium solid contacted.

The following picture is Echo-waveform Viewer that we can see actual receiving echo-form. This function will be helpful when the clients use the UFP-20 by themselves for these special applications. Cement pipe have metal wire contained for reinforce of the pipe. This metal part must be avoided to install the transducer.



The clients are able to check whether the installation point of the transducers is good or bad by using this echo-waveform Viewer.

As this verification test at site such as above photo, the portable UFP-20 flowmeter used in combination with large transducer successfully which can measure pipes with nominal diameters from 300mm up to 5000mm.

The UFP-20 main unit's inner memory can provide long term storage (logging) of instantaneous flow rates and totalized data - digital data, which can then be transferred to PC through USB memory under CSV format and modified for statistical analysis and other purposes.



### [ Pipe Specification ]

Diameter : DN80mm / DN100mm  
 Pipe material : HDPE / PVC  
 Thickness : 14.5mm  
 Lining : None

### [ Installation Data ]

Main Unit : Portable Ultrasonic Flowmeter UFP-20  
 Transducer : Medium transducer  
 Installation : Z path method / V path method

For more detailed information, please contact your local representative.

Representative in your Area