

Ultrasonic Flowmeter Application Report 45

- Flow measurement at Cement Pipe -

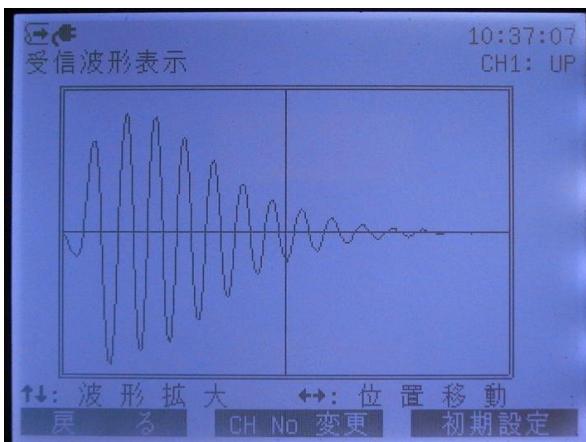


The UFP-20 portable, clamp-on ultrasonic flowmeter provides instantaneous flow rate measurements with up to 2 pairs of transducers placed on the outside of pipes.

Setup and installation are quick and easy 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 DN800mm 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.

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 : DN800mm
Pipe material : Cement Pipe
Lining : None
Thickness : 19.5mm

[Installation Data]

Main Unit : Portable Ultrasonic Flowmeter UFP-20
Transducer : Large transducer
Installation : Z path method

For more detailed information, please contact your local representative.

Representative in your Area