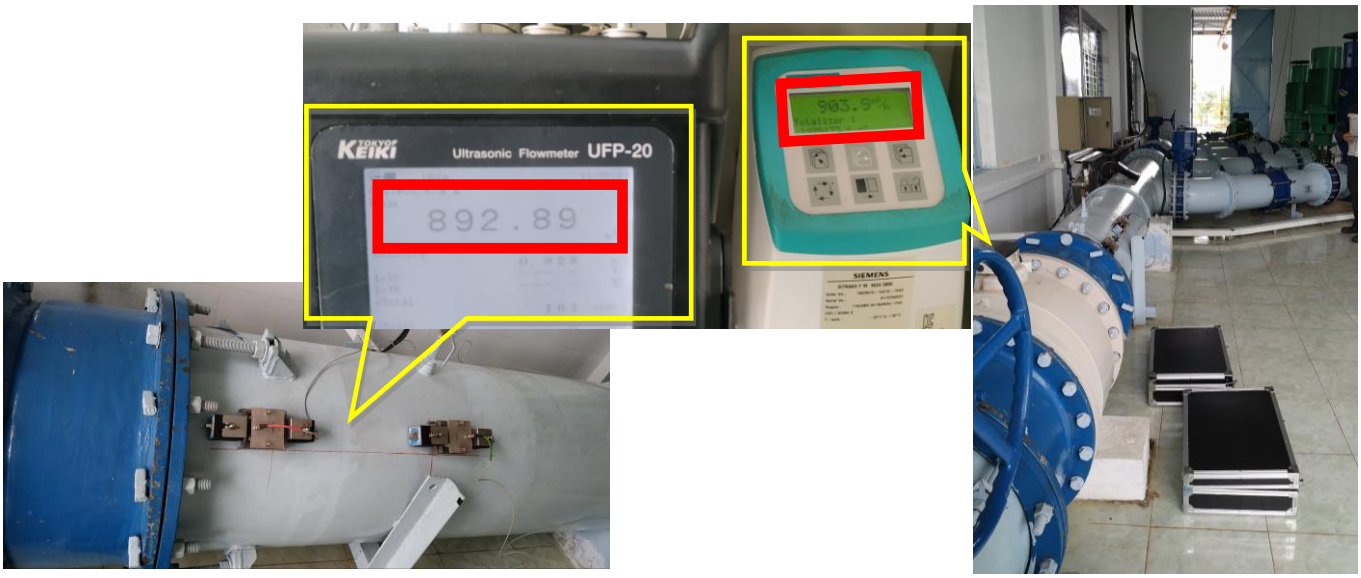
Ultrasonic Flowmeter Application Report 68

- Verification flow measurement at site-



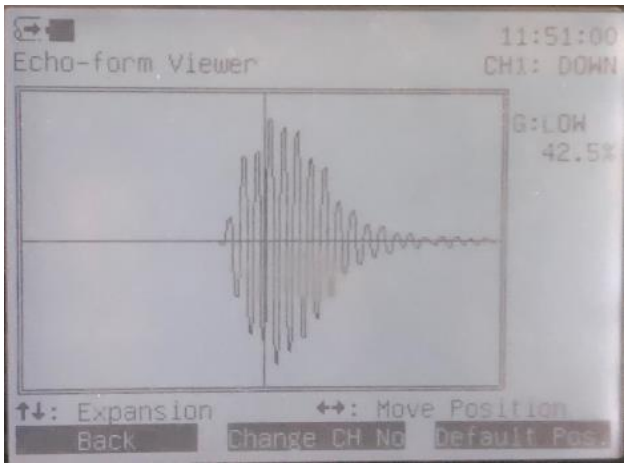
The UFP-20 portable, clamp-on ultrasonic flowmeter provides instantaneous flow rate measurements with up to 2 pairs of transducers placed on the outside of pipes.

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 1914mm Circumference pipe, non-intrusively, from the outside with no interference of flow.

In this application, the client needed to verify the real flow with existing MAG flowmeter in the water distribution network. By this clamp-on portable flowmeter, the user could measure and verify the existing flowmeter certainty 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 the special applications. The clients are able to check whether the installation point of the transducers is good or bad.



As 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. In this case, deviation between existing flowmeter and portable was only **-1.2%**.

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	:	DN600
Pipe material	:	Ductile Iron (t:10mm)
Lining	:	Mortar
Thickness		3mm
Location	:	Can Tho, Vietnam

[Installation Data]

Main Unit	:	Portable Ultrasonic Flowmeter UFP-20
Transducer	:	Large Transducer
Installation	:	V method

For more detailed information, please contact your local representative.

Representative in your Area