

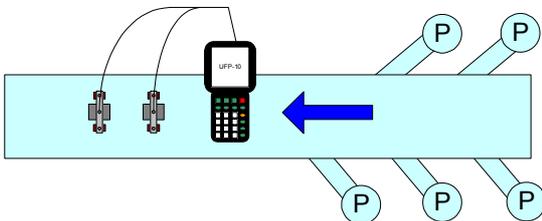
Ultrasonic Flowmeter Application Report 5

- Pump Station Outlet-



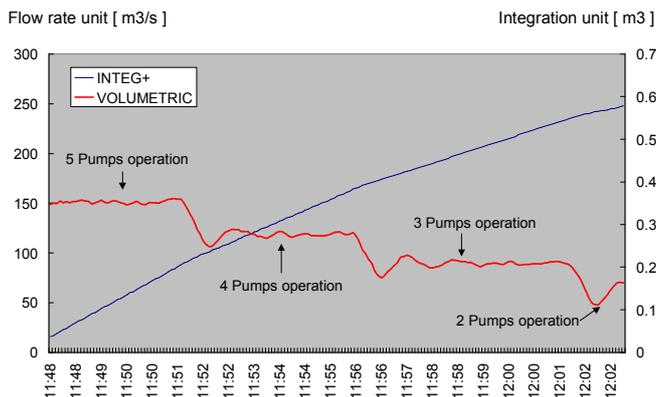
The UFP-10 portable, clamp-on ultrasonic flowmeter provides instantaneous flow rate measurements with 1 pair of transducers placed on the outside of pipes.

The measurement unit, transducers, fixtures and accessories fit into a small carrying case, which is easily transportable to work sites. Set up and installation is quick and easy even near pump stations such as shown in the photos above and in the below sketch.



At this particular site, the UFP-10 portable flowmeter with 1 pair of sensors measured the flow rate through a 900 mm diameter pipe, non-intrusively, from the outside with no interference of flow.

The sensors are magnetically clamped on to the pipe downstream of multiple pumping stations. Logged flow rates and integral values are shown in the trend graph below. The ability of UFP-10 to accurately track flow rate changes as pumps go off and on line can be seen in this graph.



This example highlights the capabilities of our handheld UFP-10 clamp-on ultrasonic flowmeter.

As demonstrated in applications such as this, the portable UFP-10 flowmeter used in combination with a variety of sensors can successfully measure pipes with nominal diameters from 13mm - 5000mm. The main unit's inner memory can provide long term storage (logging) of instantaneous flow rates and integral data - digital data which can then be transferred to PC's and modified for statistical analysis and other purposes.

[Pipe Specification]

Pipe DN : 900mm (t:9.8mm)
 Pipe material : Steel
 Lining : None

[Installation Data]

Main Unit : Portable Ultrasonic Flowmeter UFP-10
 Transducer : Large sensor
 Installation : V method

For more detailed information, please contact your local representative.

Representative in your Area