

Ultrasonic Flowmeter Application Report 19

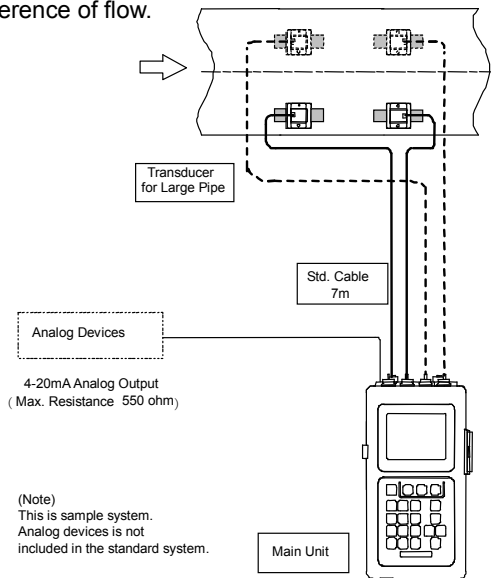
- 2path measurement by 1 main unit -



The UFP-20 portable, clamp-on ultrasonic flowmeter provides 2path measurement by 2 pairs of transducers at the measuring point that has sever flow condition.

Even if the client hope to use 2path measurement, the set up and installation are quick and easy such as shown in the photos above.

At this particular site, the UFP-20 portable flowmeter with 2 pairs of sensors stably measured the flow rate through a 150mm diameter pipe, non-intrusively, from the outside with no interference of flow.



In this application, the client can try to recover sever flow condition like turbulent flow due to short straight pipe (close to valve, elbow, gate, branch and so on). In case of this, 2path measurement by UFP-20 can average both data that measured by each pair of sensor. So ultrasonic signal passes through different route the sensor's pair-by-pair, 2path measurement can pick up various velocity factors from asymmetrical flow distribution. Therefore, 2path function realizes stable flow measurement.

This example highlights the capabilities of our handheld UFP-20 clamp-on ultrasonic flowmeter.

As demonstrated in applications such as this, the portable UFP-20 flowmeter used in combination with a variety of sensors can successfully measure pipes with nominal diameters from 13mm 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]

Pipe DN : 150mm
Pipe material : Carbon Steel
Lining : None

[Installation Data]

Main Unit : Portable Ultrasonic Flowmeter UFP-10 / 20
Transducer : Medium sensor
Installation : V method

For more detailed information, please contact your local representative.

Representative in your Area