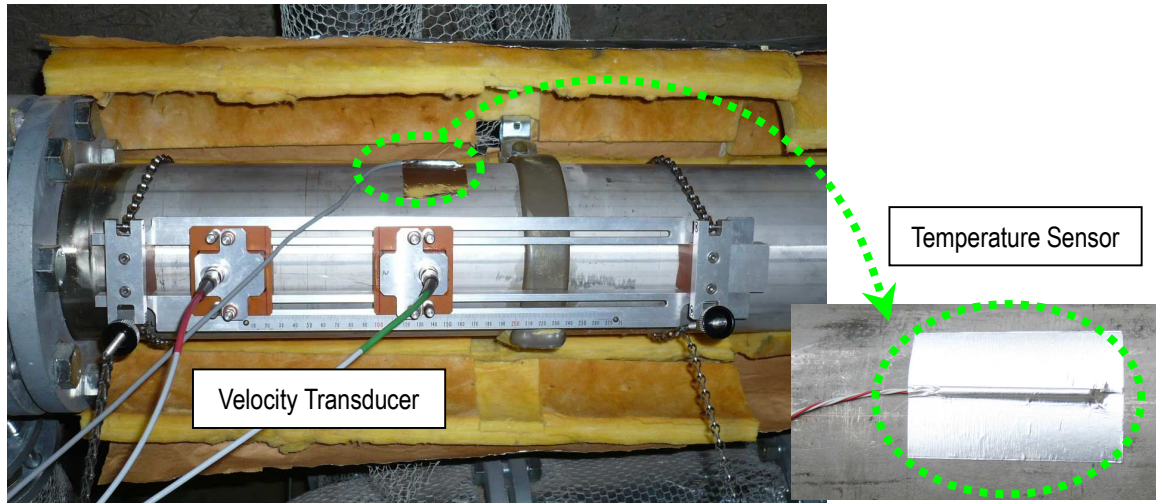


# Ultrasonic Flowmeter Application Report 18

## - Energy Efficiency Measurement -

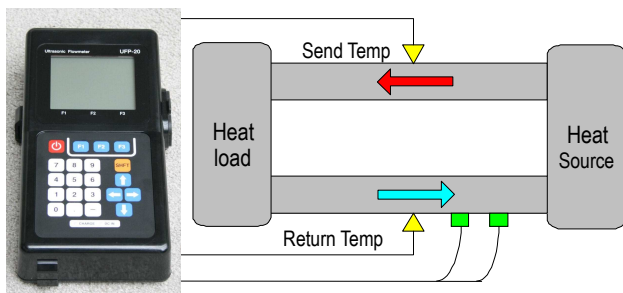


The UFP-20 portable, clamp-on ultrasonic flowmeter provides instantaneous flow rate measurements with 1 pair of transducers placed on the outside of pipes.

Set up and installation is 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 a 125mm diameter pipe, non-intrusively, from the outside with no interference of flow.

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 - 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.



In this application, the client needed to know how much energy was passing through the pipe to each room of the building. Especially in case of using UFP-20, main unit integrates independent temperature transducers both at the send line pipe to heat load and return line to heat source. The client could confirm how much old chiller/heat source had deteriorated compare to brand-new-models. This information enabled the client to consider sufficient for the task but which minimized his energy consumption at great savings.

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

[ Pipe Specification ]

Pipe DN : 125mm (O.D.: 139.8mm, t : 2.8mm)  
 Pipe material : Stainless Steel  
 Lining : None

[ Installation Data ]

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

For more detailed information, please contact your local representative.

Representative in your Area