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Measure the Velocity of Liquid with Ultrasonic Flow Meters by [Kent Wrotham](#)

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The matter is found in three forms. Solid, Liquid and in Gaseous form. However in liquids it becomes necessary to check the velocity for various reasons. An instrument which does such is known as Ultrasonic Flow Meter. It is a flow meter which checks the velocity of a liquid. It also checks the velocity of a gas if it is in fluid form. The principle of ultrasound works in measuring the velocity of the liquid or gas. The temperature, mass and thickness of the substance affect the ultrasonic meters deeply. There is no usage of moving parts in Ultrasonic Flow Meters and thus they are easy to use and handy. They are also not expensive and thus easily excess able.

An ultrasonic flow meter is best suited for application of wastewater or transforming those liquids or water which are waste or dirty. These kinds of meters do not work effectively with water which includes high turbidity. These types of meters are best suited in conditions which require low maintenance, low pressure drop and chemical compatibility.

There are mainly three types of ultrasonic flow meters. First, Transmission Flow Meters, second, Reflection or Doppler flow meters and third is Open-Channel flow meter.

One type of ultrasonic flow meter is Portable Ultrasonic Flow Meter. It is basically a series of Ultrasonic Flow meters which has a feature of advance Trans-Phase measuring technology. It is best suited in case of closed piping system. It provides assesses to the flow of velocity and then provides a data which is not only adequate but is also reliable.

It can be said that these types of ultrasonic meters are best suited in their own sphere. Applicable in closed piping system and open channel systems as well.

Whatever is the case, it can be said that Portable Ultrasonic Flow Meters feature a way of measuring the velocity of the liquid or gas in fluid form and is very important in today's scientific world.

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