Applications example

1. **Measuring system for the paint flow rate**
The flow rate of thick paint is measured by a detector mounted on the pipe already constructed.

2. **Flow rate measurement in a water purifying system for semi-conductors**
Advantages of using an ultrasonic flowmeter for the system

1) It can be easily mounted on the exterior of a pipe, helping reduce mounting cost.
2) As a sensor, it can operate without coming into contact with fluid, so the fluid is not affected by metallic ions.
3) This meter, compact and lightweight, can be easily carried and mounted.

3. **Ideal for flow rate measurement of liquid flowing within large-diameter pipes**

1. Ultrasonic flowmeters are much more economical than electromagnetic flowmeters when used for fluid within a pipe whose diameter is 200mm or larger.
   - The larger the diameter of electromagnetic flowmeter, the higher the price of the electromagnetic flowmeter.
   - The price of the ultrasonic flowmeter stays the same irrespective of pipe diameter.

2. Possible generation of air bubbles within pipe can be handled by Duosonics.
   - Resistance to bubbles 5 times as large as that of conventional products (our company ratio)

Ultrasonic flowmeter is more economical for measurement of flow in pipe whose diameter is 200mm or larger.

4. **Flow rate measurement in the air-conditioning field**

Flow transmitter

Building A
Detector
Flow transmitter

Heat exchanger

Building B
Detector
Flow transmitter
5. **Drain flow rate measurement**
Capable of measuring flow rate in 2 separate pipes, and calculating totalized value, and difference.

6. **Facility diagnosis**
Facility optimization diagnosis allowed by measurement of flow velocity distribution within piping.

7. **Flow rate measurement of mayonnaise and dressing**
Accurate measurement of high-viscosity and low-velocity fluid allowed by Duosonic.

8. **Flow rate measurement of corrosive fluid**
Non-contact measurement by M-Flow PW ideal for corrosive fluid in glass, metallic, and plastic pipes.

9. **Consumed energy calculation function**
Calculates the thermal energy received and sent with liquid (water) in cooling and heating.
- It can be mounted on the pipe already constructed.
- Small, lightweight and easy to mount.

10. **Flow rate measurement in cooking oil production line**
Unlike mechanical or Coriolis type, maintenance is not required.

11. **Ideal for checking flow rate in the field**
Portable model with no need for power supply.

Applicable to pipes whose diameter falls within 13mm to 6000mm range.

Flowmeter with printer ideal for data management also available.